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BGES, INC.

Environmental Consultants

LOTS 8A, 10, 11, AND 12; BLOCK 26A; EAST ADDITION ANCHORAGE, ALASKA

PHASE H ENVIRONMENTAL SITE ASSESSMENT

Pump directly to surface Not in Bucket.

Submitted to: PAUL MANEY

Submitted by: BGES, INC.

P.O. Box 110126
Anchorage, Alaska 99511-0126
(907) 644-2900
Eagle River Office
(907) 696-2437

SEPTEMBER 2004

04-038-01

LOTS 8A, 10, 11, AND 12, BLOCK 26A, EAST ADDITION ANCHORAGE, ALASKA

PHASE H ENVIRONMENTAL SITE ASSESSMENT

SEPTEMBER 2004

Submitted to: **Paul Maney**

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P.O. Box 110126
Anchorage, Alaska 99511-0126
Ph: (907) 644-2900
Fax: (907) 644-2901

Eagle River Office
(907) 696-2437

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1.0 INTRODUCTION

BGES, Inc. (BGES) was retained by Mr. Paul Maney, owner of the property located at Lots 8A, 10, 11, and 12, Block 26A, East Addition Subdivision (hereafter referred to as the subject property), to conduct a Phase II Environmental Site Assessment (ESA). The subject property is located on the north side of 4th Avenue, between Gambell Street and Hyder Street in Anchorage, Alaska (Photograph 1 in Appendix A and Figure 1). The work was performed in accordance with our proposal dated August 5, 2004, with notice to proceed by receipt of our proposal, signed by Paul Maney on August 5, 2004.

The fieldwork portion of the Phase II ESA, which occurred on August 28, 2004, entailed excavation of six test pits, removal of five hydraulic lifts, removal of four underground storage tanks (USTs), and removal of some associated contaminated soils. The laboratory results indicated that the soils remaining after excavation of the hydraulic lifts and the stockpiled soils had diesel range organics (DRO) concentrations exceeding Alaska Department of Environmental Conservation (ADEC) cleanup Standards. In addition, the soils in Test Pits 1 through 3 exhibited tetrachlorethylene (PCE) concentrations exceeding the ADEC cleanup criterion (the soil samples from TP-4 through TP-6 were not tested for PCE). Photographs of the fieldwork are included in Appendix A.

Levels

A spill notification form was issued to the ADEC on September 17, 2004, along with a copy of the analytical results and a request to dispose of the stockpiled contaminated soils. In a response on September 22, 2004, the ADEC provided their approval (Appendix B).

2.0 BACKGROUND

The site is currently undeveloped and used as a parking lot for the Anchorage Job Center. The surface at the property is unpaved and generally level. An Alaska Communications System antenna tower is situated on the southeast portion of the property.

2.1 Property History

The property was formerly occupied by a variety of businesses, including C&K Cleaners (which may have been a drycleaners) from approximately 1968 through 1970, and NC Tire Center, which was the last occupant of the buildiag on site. Table 1 summarizes the past occupancy of the subject property. A brief reconnaissance performed prior to Phase II ESA activities indicated evidence of the presence of two hydraulic lifts that were still in the ground. In addition, an underground storage tank

(UST) was reportedly situated near a power pole in the northeast portion of the property. Subsequent assessment indicated that five lifts and four USTs were present at the site. Figure 2 shows the layout of the subject property.

2.2 Review of Aerial Photographs

Aerial photographs of the vicinity of the property taken in 1950, 1960, 1970, 1975, 1976, 1977 and 1978 were briefly reviewed, and the June 2, 1977 photograph was chosen to print at a scale of 1 inch equal to 100 feet.

The June 23, 1950 photograph revealed that the subject property was developed at that time. There was what appeared to be a house on the west end of the property near Gambell Street. On the east end of the property, there was a long thin building that was oriented in a north-south direction with cars parked on both the east and west sides. In the north-central portion of the property near the alley was a small building. Hyder Street was not visible at this time. Both 4th Avenue and Gambell Street appeared to be paved. The area around the subject property was developed with a mixture of residential and commercial uses. The Native Hospital to the north was under construction.

The May 14, 1960 aerial photograph revealed that the house on the west end of the property was replaced with a larger building with cars parked around it. The building on the east end appeared to be the same as seen in the previous photograph. The building in the north-central portion of the property appeared larger than previously observed. Hyder Street to the east of the property was present in this photograph.

The April, 1970 aerial photograph showed that the there was no building on the west end of the property and that the western portion of the property was used for parking. On the east end of the property was an "L"-shaped building with the long axis parallel to Hyder Street and the short leg parallel to and near the alley. There were cars and trucks parked on the east side of the building and what appeared to be a large pile of tires on the west end of the building.

The June 27, 1975 and October 7, 1976 aerial photographs were reviewed and the subject property appeared to be essentially the same as in the previous photograph.

The June 2, 1977 photograph, which is included as Figure 3, appears similar to the earlier photograph for the subject property. The "L"-shaped buildiog is present on the northeast end of the lot. The eastern half of the lot is open and has a few parked cars. A pile of what appears to be tires is still

encountered sand and gravel across the site. Test pit logs are included in Table 2. The locations of the test pits are shown on Figure 2.

4.2 Removal of Hydraulic Lifts and Associated USTs

BC Excavation provided a Deere 200C LC tracked excavator and several laborers for investigation and removal of subsurface features left in place after the demolition of the former NC Tire Center. Based on surface observations, there appeared to be two hydraulic lift cylinders, about thirty feet apart present in the area of the former building. During excavation of the southern cylinder, it was noted that this cylinder was actually two connected cylinders (Photograph 5 in Appendix A). In addition, a buried tank, assumed to be the hydraulic oil reservoir for the lift cylinders, was found approximately five feet south of the joined cylinders (Photograph 6 in Appendix A). There were no pipes or hoses connecting the cylinders and the tank. The tank was full of what appeared to be hydraulic oil, which was pumped into a 55-gallon drum. Approximately 40 gallons of dark red liquid were removed from the tank, which was then lifted and placed on a plastic liner. Soil Sample SLT-1, was taken from the area where the tank had been sitting. There was no staining or odor in the area. The set of joined lift cylinders was removed and placed on the plastic liner. Soil Sample SLC-2 was collected from the soil beneath the cylinders; again no staining or odors were noted.

Excavation was continued in the area of the northern cylinder, and a fourth cylinder was found in between the northern and southern cylinders. This middle lift was removed and placed on the plastic liner. Sample MLC-3 was collected beneath where the middle cylinder was situated.

The northern cylinder was found to be encased in a cement vault. The vault had a cement cover and was approximately two feet wide, six feet long and six feet deep with a connected cement bottom. Also found inside the vault was a hydraulic oil tank which had liquid inside. About 40 gallons of liquid were pumped off into a 55-gallon drum. There was loose soil within the vault with dark staining, as was the inside of the walls of the vault (Photograph 7 in Appendix A). The soils had a strong hydrocarbon odor. Both the cylinder and the reservoir tank were removed and placed on the plastic liner. The lid and part of the north wall of the vault were removed and placed in a separate pile outside of the excavation.

During clearing of the soil around the cement vault, a fifth hydraulic cylinder was uncovered to the east of the other cylinders (Photograph 8 in Appendix A). This cylinder was also removed and sample ELC-6 was taken underneath where the cylinder had been situated.

The cement vault was broken into several pieces and removed (Photograph 9 in Appendix A). All of the stained soil from within the vault was stockpiled in separate stockpile on a liner and covered with the liner material. Likewise, the stained concrete was segregated into a separate stockpile from the other concrete. After all of the concrete was removed and all of the visibly stained soil was removed soil Sample CP-7 was collected in the area below where the vault was formerly situated.

The next area to be investigated was to the north, near the alley and the power pole, which was the area suspected to have a buried heating oil tank. A tank was exposed, with the top approximately four feet below surface (Photograph 10 in Appendix A). There was no piping connected to the tank and several openings along the top of the tank, where comections would normally be, were observed. A total of approximately 100 gallons of liquid was found in the tank and was pumped into two 55-gallon drums. While clearing the remaining soil fiom around the tank, a second tank was found below the first tank and extending firther north. This second tank was found to be completely dry inside (Photograph 11 in Appendix A). After pumping out the first tank, it was removed and set outside of the excavation (Photograph 12 in Appendbc A). Sample T1E-4 was then collected beneath where the east end of tiie first (upper) tank was situated. The soil around the second tank was cleared in preparation for its removal. There were several pipes still comected to the second tank but they all terminated a few feet from the tank. Sample T2B-5 was collected from beneath the approximate center of where the second tank had been situated.

Due to the proximity of this excavation to the power pole and a buried natural gas utility line in the alley, no additional excavation was performed in this area and as soon as the tank was removed, the excavation was backfilled. The two tanks removed were approximately 3.5 feet in diameter and 12 feet long, which would correspond to a capacity of between 950 and 1100 gallons each. Both tanks were very rusty and corroded on the outside but did not have any visible holes. During removal, the tanks were partially crushed and in one case a puncture hole was made near the top of the tank, but no liquid was spilled. The tanks were tiien loaded onto a trailer for disposal (Photograph 13 in Appendix A).

Five loads of clean fill were brought to the site to be used during backfilling. Backfilling was accomplished in lifts of approximately two feet and compacted with a vibratory compactor. The entire excavated area was backfilled and compacted back to approximately the original surface elevation (Photograph 14 in Appendix A).

4.3 Disposition of Excavated Material

During excavations, multiple pieces of concrete footing were encountered and stockpiled on site. Also black iron pipe, assumed to be drain pipe was encountered and stockpiled along with other metallic material (Photograph 15 in Appendix A).

The two heating oil tanks, the two hydraulic oil reservoir tanks and the five hydraulic lift cylinders were loaded into a lined dump truck box with a lined lowboy trailer and hauled off site for disposal at Alaska Metal Recycling. All of the drummed liquids from the various tanks were removed from the site for disposal at Emerald Alaska.

Two piles of excavated concrete, one clean and one stained, were left on site after the initial excavation activities were completed. The stained soil from within the concrete vault was also left on site with a liner under and covering the pile (Photograph 14 in Appendix A). On August 30, 2004, the 30 cubic yards of clean concrete were loaded and hauled to Alaska Basic Industries, a division of Anchorage Sand & Gravel, for reclamation. The stained concrete and the metallic debris were loaded and taken to the Anchorage Regional Landfill. A total of 7,660 pounds of material was disposed in this manner. Disposal documentation is included in Appendix C.

4.4 Soil Sampling and Analysis

During test pit excavation and hydraulic lift and UST removal, soil samples were collected for headspace screening with a photoionization detector (PID). The samples were collected from various depths to characterize the subsurface soils and to determine which samples should be submitted for laboratory analyses. The screening samples were collected using clean, stainless-steel spoons and placed in sealed plastic bags. The samples were allowed to warm to ambient temperatures before being screened within approximately 1 hour of collection. The bags were shaken for approximately 15 seconds prior to inserting the probe of a PID into the bag. The maximum reading on the PID was then recorded. The PID was calibrated with 100 parts per million isobutylene calibration gas prior to use. The results of the PID screening are included on Table 2.

Samples for laboratory analyses were selected from the test pits based on the maximum PID readings, to characterize subsurface conditions across the property. Samples from the hydraulic lift and UST removal locations were selected from undisturbed soils beneath the tanks after their removal to

document the conditions of the remaining soils. Soil samples were collected from the stockpiled soils to characterize the soils for disposal.

The soil samples were placed in a chilled cooler and were delivered to SGS Laboratory in Anchorage under chain of custody protocol. The samples were analyzed for Gasoline Range Organics (GRO) by Alaska Method (AK) 101; benzene, toluene, ethylbenzene and xylenes (BTEX) by SW8021B; diesel range organics (DRO) by AK 102, residual range organics (RRO) by AK 103. In addition, the samples collected from Test Pits 1 through 3 were analyzed for volatile organic compounds (VOCs) by SW 8260 because of the former presence of a drycleaner in the western portion of the property. As a quality control measure, trip blank samples prepared by the laboratory accompanied the project sample containers during the entire sampling and shipping process.

4.5 Evaluation of Laboratory Data Level 5

The analytical results for the soil samples are summarized in Table 3 and are compared to ADEC Method 2 Cleanup Criteria listed in 18AAC 75.341 - Table B2 cleanup criteria (300 milligrams per kilogram (mg/Kg) for GRO, 250 mg/Kg for DRO, 10,000 mg/Kg for RRO), and 18AAC75.341 - Table B1 [0.02 mg/Kg for benzene, 5.4 mg/Kg for toluene, 5.5 mg/Kg for ethylbenzene, 78 mg/Kg for total xylenes, 0.03 mg/Kg for PCE, and 0.027 mg/Kg for trichloroethylene (TCE)]. The complete laboratory results are included in Appendix D. It should be noted that the laboratory report lists Sample TP-1 S6 as TP-1 SG.

The soil samples collected from the test pits exhibited non-detectable concentrations of GRO, BTEX, DRO, and RRO, except for a GRO concentration measured in Sample TP-2 S7, which was 1.67 mg/Kg. This value is considerably less than the corresponding ADEC cleanup criterion of 300 mg/Kg. The samples from TP-1 through TP-3, collected at depths of 12, 16, and 16 feet bg respectively, were analyzed for VOCs, and exhibited PCE concentrations of 4.09, 4.20, and 1.73, respectively. These concentrations all exceed the ADEC cleanup criterion of 0.03 mg/Kg. In addition, the sample from TP-3 exhibited a TCE concentration of 0.0250 mg/Kg, which is below the ADEC cleanup criterion of 0.027 mg/Kg. No other VOC was detected above detection concentration.

Although the samples from TP-4 through TP-6 were not analyzed for VOCs, the laboratory was requested to examine the chromatograms for the GRO analyses to determine if a signature for PCE was present. Subsequent review of the chromatograms indicated that there was evidence of PCE in samples from each of these test pits.

The samples collected from beneath the removed hydraulic cylinders, Samples SLC-2, MLC-3, and ELC-6 at depths of approximately six feet bg, exhibited non-detectable concentrations of GRO and BTEX. These samples exhibited DRO concentrations of 398, 33.5, and 230 mg/Kg, respectively. The DRO concentration in the SLC-2 sample exceeded the ADEC cleanup criterion of 250 mg/Kg. These samples exhibited RRO concentrations of 3,230; 264; and 1,170 mg/Kg, which are all below the ADEC cleanup criterion of 10,000 mg/Kg.

The samples collected beneath the hydraulic oil USTs, Samples SLT-1 and CP-7 at depths of four and six feet bg respectively, exhibited non-detectable concentrations of GRO and BTEX. These samples exhibited DRO concentrations of 509 and 329 mg/Kg, respectively, which both exceed the ADEC cleanup criterion of 250 mg/Kg. These samples exhibited RRO concentrations of 3,670 and 1,820 mg/Kg, respectively, which are both below the ADEC cleanup criterion of 10,000 mg/Kg.

The samples collected beneath the heating oil USTs, Samples T1E-4 and T2B-5 at depths of six and eight feet bg, respectively, exhibited non-detectable concentrations of GRO and BTEX. These samples exhibited DRO concentrations of 98.3 and 230 mg/Kg and RRO concentrations of 1,250 and 48.8 mg/Kg, respectively, which are below the respective ADEC cleanup criterion of 250 and 10,000 mg/Kg.

The samples collected from the stockpiled soils, SP-8 and SP-9, exhibited non-detectable concentrations of GRO/BTEX. These samples exhibited DRO concentrations of 208 and 408 mg/Kg, respectively. The DRO concentration of SP-9 (408 mg/Kg) exceeds the ADEC cleanup criterion of 250 mg/Kg. These samples exhibited RRO concentrations of 895 and 1,010 mg/Kg, respectively, which are both below the ADEC cleanup criterion of 10,000 mg/Kg.

The trip blank that was analyzed for GRO, BTEX, and VOCs exhibited non-detectable concentrations of all analytes, indicating that cross-contamination did not occur during sample handling.

5.0 CONCLUSIONS AND RECOMMENDATIONS

A brief review of historical information available for the subject property indicates that it was formerly occupied by the NC Tire Center and a cleaners (C and K Sanitary Cleaners) that may have been a drycleaners. The property is currentiy used as a parking lot, and has a generally level, unpaved surface. Six test pits were excavated at the property and subsurface soils were identified to contain PCE concentrations exceeding the ADEC cleanup criterion. Two heating oil USTs were removed

from the property and die soils remaining beneath the heating oil USTs exhibited analyte concentrations that were below ADEC cleanap criteria.

Five hydraulic lifts and two associated small hydraulic oil USTs were removed from tiie property, and soils remaining beneath the excavations exhibited DRO concentrations exceeding the ADEC cleanup criterion. The volume of soils with DRO concentrations exceeding the ADEC cleanup criterion appears to be relatively small, and would be difficult to precisely locate after placement of clean fill. It is recommended that the remaining soils be further evaluated in conjunction with additional assessment of PCE contamination as described below.

It is recommended that a work plan be developed to address the PCE contamination identified in the test pits. The work plan will likely include advancement of soil borings and possibly iastallation of monitoring wells and sampling of the existing monitoring well on site. It is also recommended that the stockpiled soils be transported to Alaska Soil Recycling in Anchorage for thermal treatment. Finally, it is recommended that a copy of this report be submitted to the ADEC for their review.

6.0 EXCLUSIONS AND CONSIDERATIONS

This report presents facts, observations, and inferences based on conditions observed during the period of our project activities, and only those conditions that were evaluated as part of our scope of work. Our conclusions and recommendations are based on our observations and the results of our research, and as such, rely on the accuracy of the reports and other correspondences that were reviewed. In addition, changes to site conditions may have occurred since we completed our initial project activities. These changes may be from the actions of man or nature. Changes in regulations may also impact the interpretation of site conditions. BGES will not disclose our findings to any parties other than our client as listed above, except as directed by our client, or as required by law.

Prepared by:

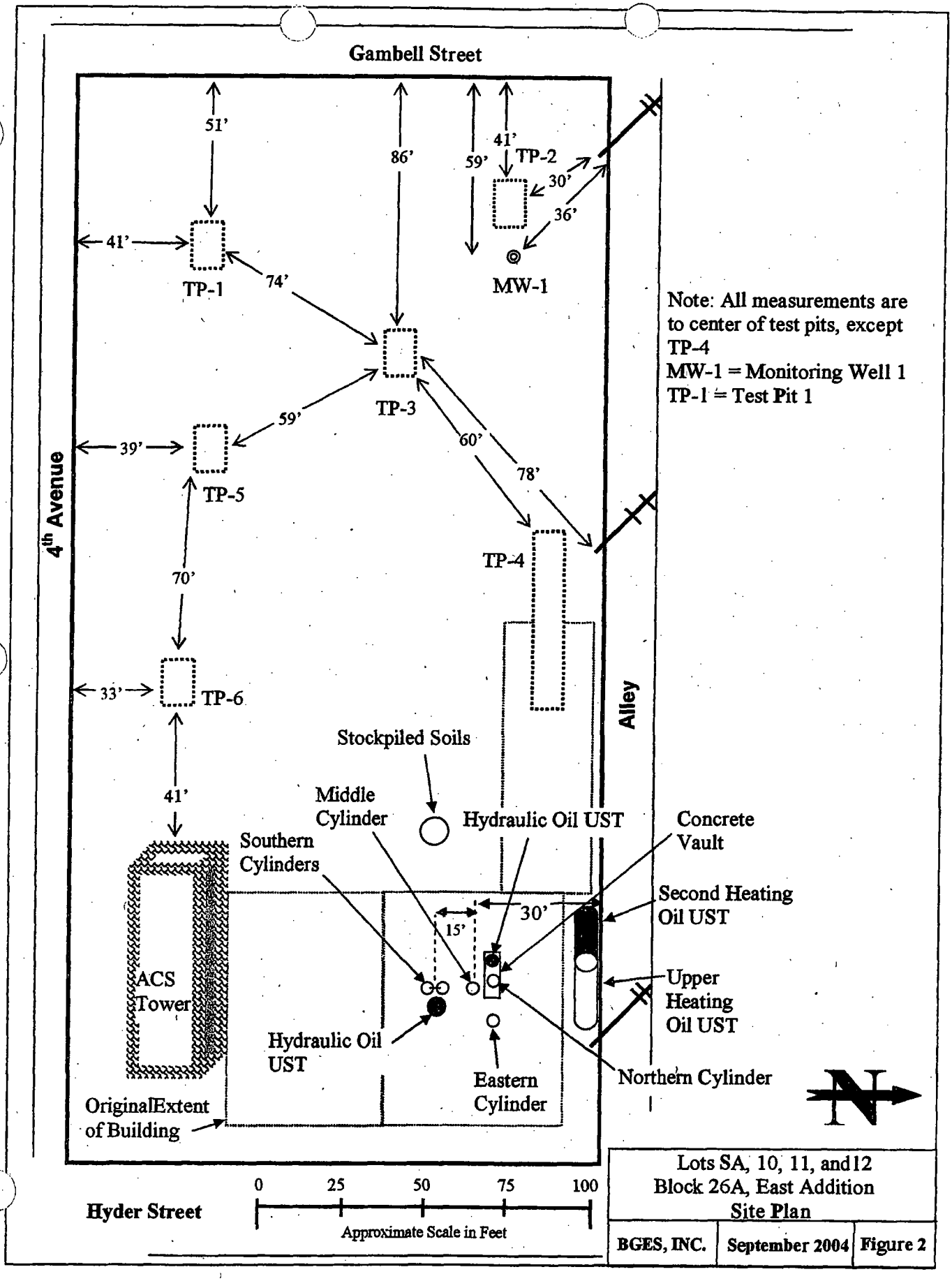
Robert N. Braunstein

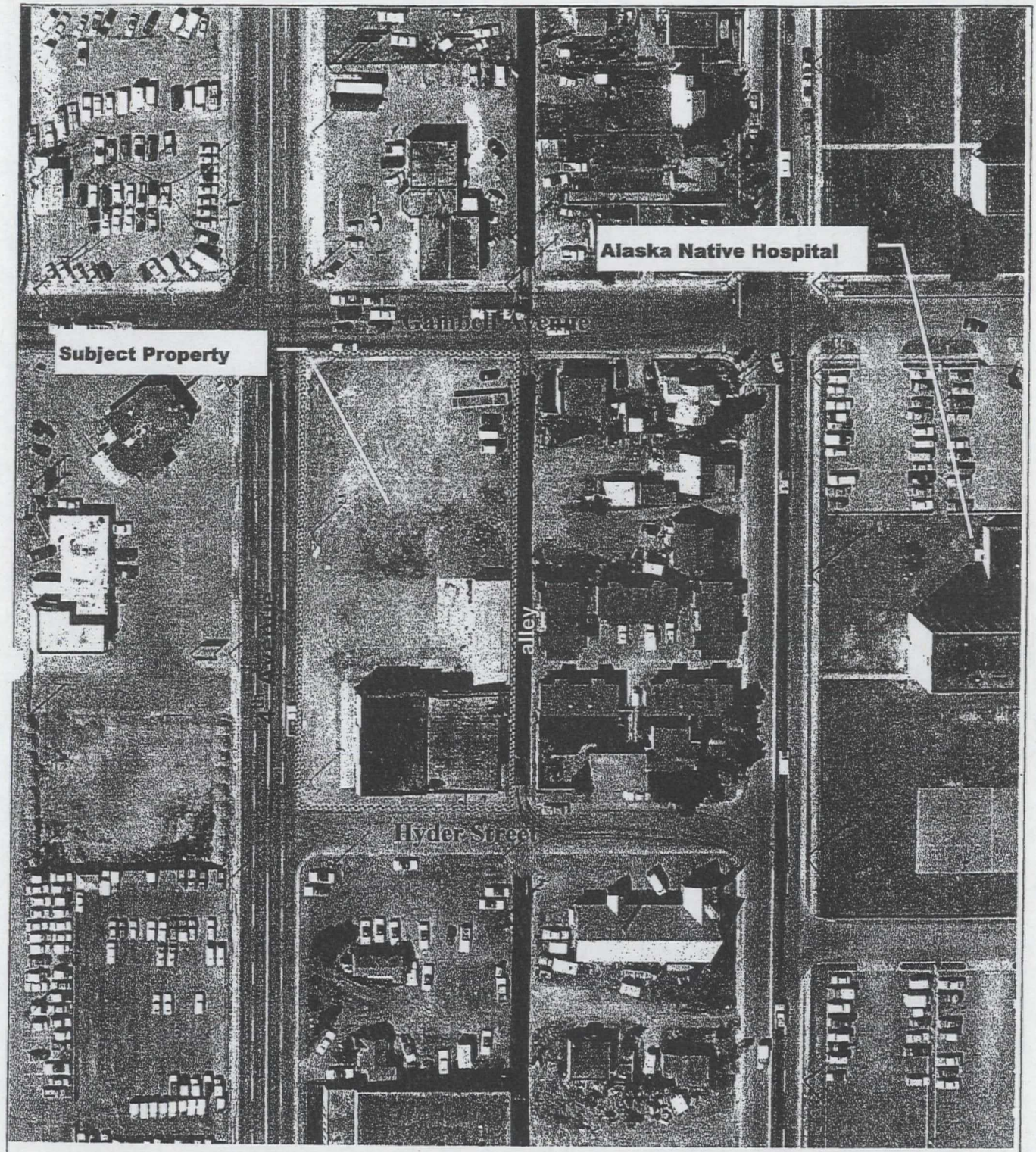
Robert N. Braunstein, C.P.G.
Principal Geologist

Reviewed by:

Keith O. Guyer

Keith O. Guyer, R.G.
Principal Geologist


Gambell Street
4th Avenue
Alley
Hyder Street
51'
86'
59'
41'
TP-2
30'
36'
41'
TP-1
74'
MW-1
TP-3
59'
39'
60'
78'
TP-5
TP-4
70'
33'
TP-6
41'
Stockpiled Soils
Middle Cylinder
Hydraulic Oil UST
Concrete Vault
Southern Cylinders
30'
15'
Second Heating Oil UST
ACS Tower
Upper Heating Oil UST
Hydraulic Oil UST
Eastern Cylinder
Northern Cylinder
OriginalExtent of Building
0
25
50
75
100
Approximate Scale in Feet
Note: All measurements are to center of test pits, except TP-4
MW-1 = Monitoring Well 1
TP-1 = Test Pit 1
Lots SA, 10, 11, and12
Block 26A, East Addition
Site Plan
BGES, INC.
September 2004
Figure 2



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Source: AeroMap U.S. Scale: 1inch =100 feet

Lots 8A, 10, 11 and 12, Block 26A
East Addition, Anchorage, Alaska
June 2, 1977 Aerial Photograph

BGES, INC.	September 2004	Figure 3

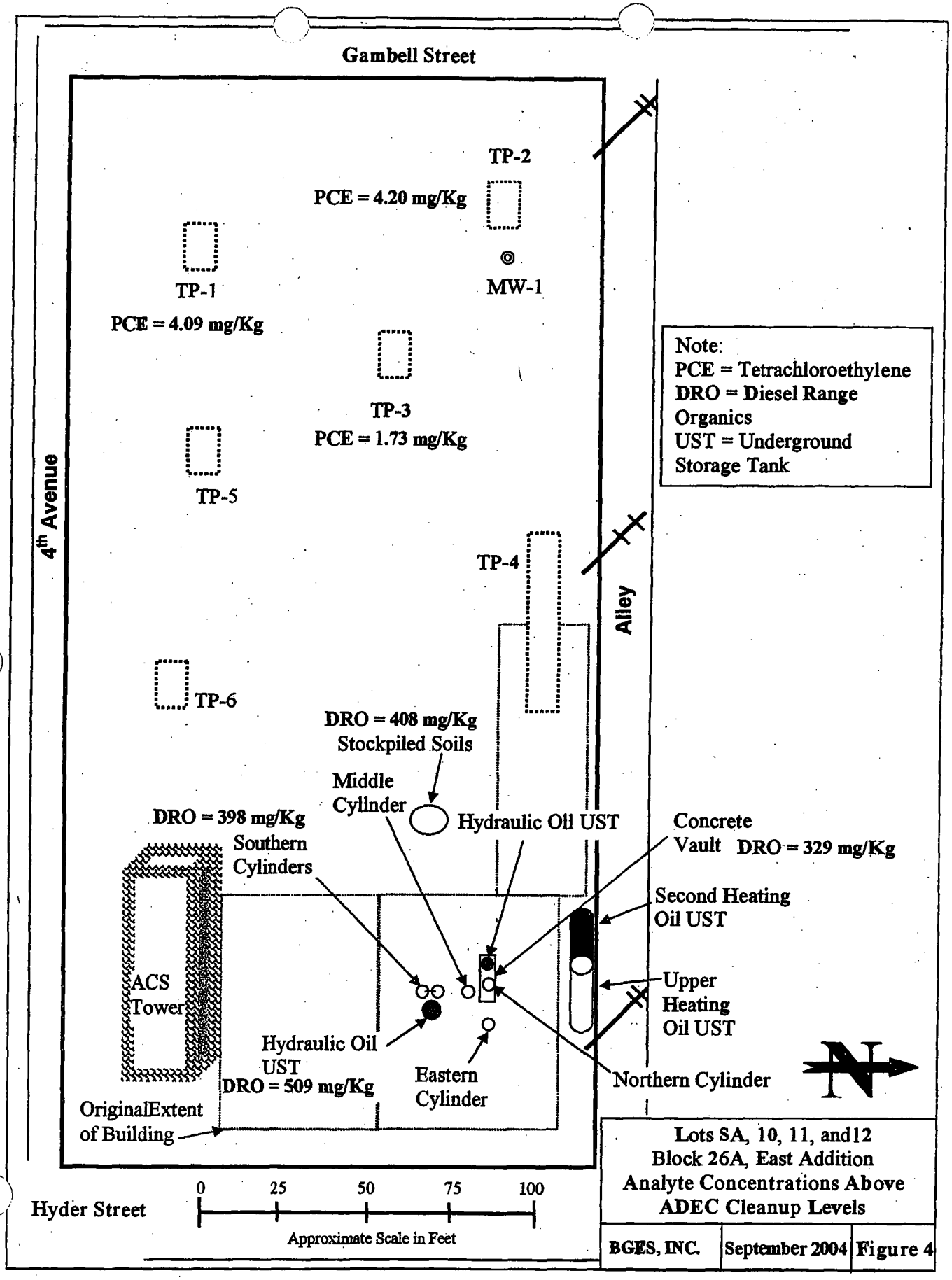

Gambell Street
4th Avenue
Alley
Hyder Street
TP-1
PCE = 4.09 mg/Kg
TP-2
PCE = 4.20 mg/Kg
MW-1
TP-3
PCE = 1.73 mg/Kg
TP-4
TP-5
TP-6
DRO = 408 mg/Kg
Stockpiled Soils
Middle
Cylinder
Hydraulic Oil UST
DRO = 398 mg/Kg
Southern
Cylinders
Concrete
Vault
DRO = 329 mg/Kg
Second Heating
Oil UST
ACS
Tower
Upper
Heating
Oil UST
Hydraulic Oil
UST
DRO = 509 mg/Kg
Eastern
Cylinder
Northern Cylinder
OriginalExtent
of Building
Note:
PCE = Tetrachloroethylene
DRO = Diesel Range
Organics
UST = Underground
Storage Tank
0
25
50
75
100
Approximate Scale in Feet
Lots SA, 10, 11, and12
Block 26A, East Addition
Analyte Concentrations Above
ADEC Cleanup Levels
BGES, INC.
September 2004
Figure 4

TABLE 1

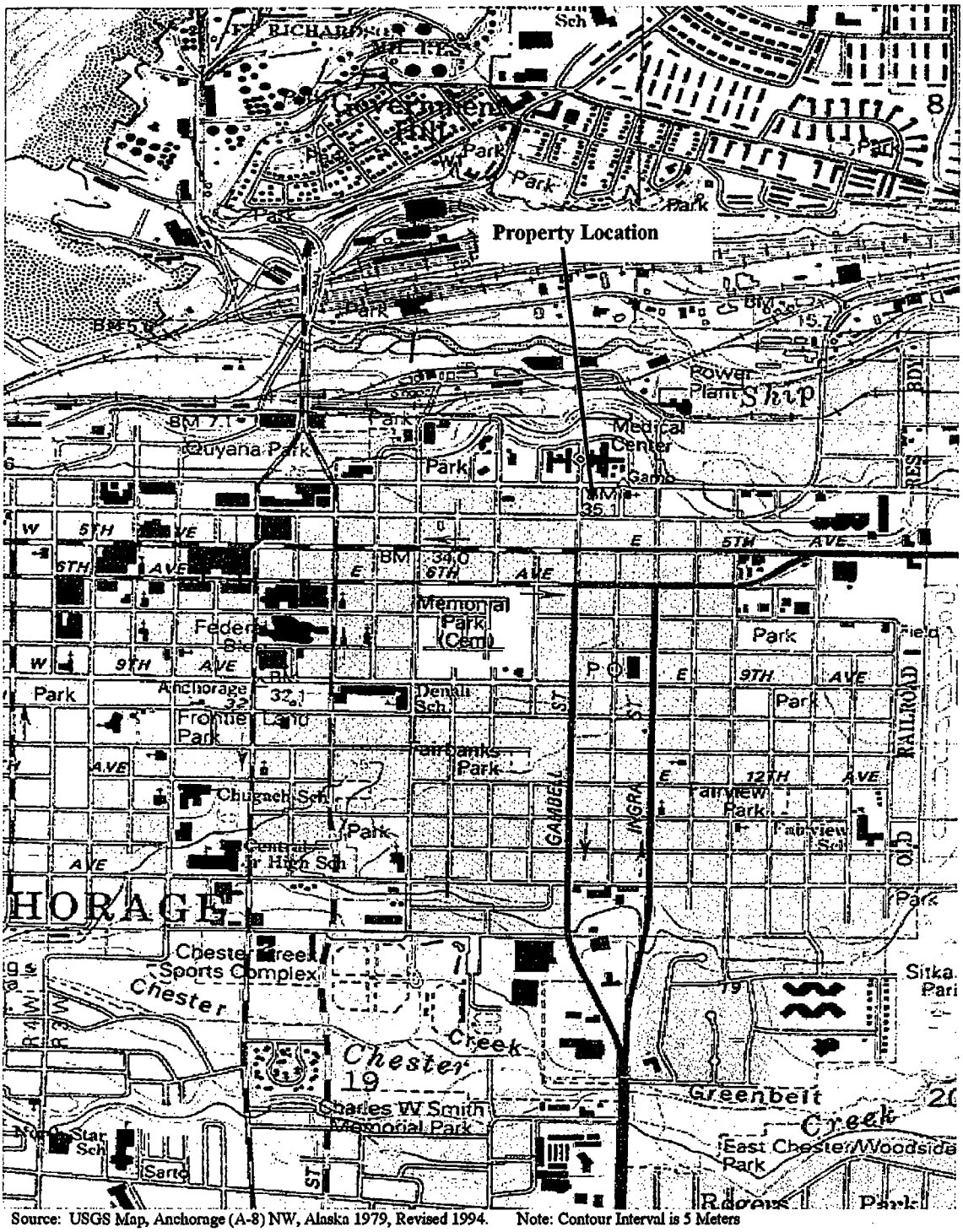
Lots 8A, 10, 11 and 12, Block 26A, East Addition
Polk City Directories Listings

Year/ Address	Name/Business
1965	
717	Martin's Custom Tailors
719	Richmond Barber
721	O'Neil's Richmond cocktail Lounge
735	Jack's Barber shop
1968	
711	C&K Sanitary Cleaners
717	Vacant
735	Jack's Barber shop
1969-70	
711	C&K Sanitary Cleaners
717	Martin's Custom Tailors
719	Richmond Barber
721	O'Neil's Richmond Gaslight
735	Jack's Barber shop
1975	
735	NC Auto Services Center
1976-77	
735	NC Auto Services Center
1979	
	No listing
1980	
	No listing

TABLE 2
Lots 8A, 10, 11, and 12; Block 26A
East Addition
Test Pit Logs

Test Pit No.	Sample No.	Sample Depth (Feet bg)	PID Reading in Bucket (ppm)	PID Reading in Breathing Zone (ppm)	Description
TP-1	N/A	0-0.3	N/A	N/A	Asphalt
	N/A	0.3-2.0	0	N/A	Very fine grained sand and gravel; orange brown; few cement bricks
	S-1	2.5	0	0.0	Very fine grained sand and gravel; brown to black
	S-2	4.7	0.7	0.5	Coarse sand and gravel; brown to black
	S-3	6	2.2	0.0	Coarse sand and gravel; brown to black
	S-4	9	0	0.7	Coarse sand and gravel; brown to black
	S-5	10	1.9	1.1	Coarse sand and gravel; brown to black
Lab	S-6	12	13	1.1	Coarse sand and gravel; brown to black
	S-7	16	0.6	0.2	Coarse sand and gravel; brown to black
TP-2	S-1	2.0	2.2	0.5	Coarse sand, well sorted, few pieces of gravel; brown to black; piece of wood
	S-2	4.0	9	1.3	Coarse sand and gravel; brown to black
	S-3	6	10	3.1	Coarse sand and gravel; brown to black; wood crib at 3 to 8 feet
	S-4	8	5.7	4.0	Coarse sand and gravel; brown to black
	S-5	10	10.5	1.2	Coarse sand and gravel; brown to black
	S-6	12	7.3	15.5	Coarse sand; some gravel; brown to black
Lab	S-7	16	54	9.0	Coarse sand and gravel; brown to black
TP-3	S-1	2.0	0.2	0.7	Very fine grained sand, very silty, and gravel; reddish brown
	S-2	4.0	0.2	0.2	Coarse sand and gravel; brown to black (some trash at 3 feet - cans, pottery)
	S-3	6	0.3	1.4	Coarse sand and gravel; brown to black
	S-4	8	6.3	74.0	Coarse sand and gravel; brown to black
	S-5	10	3.3	23.0	Coarse sand and gravel; brown to black
	S-6	12	6.7	26.2	Coarse sand and gravel; brown to black
Lab	S-7	16	27.6	182	Coarse sand and gravel; brown to black
TP-4	S-1	2.0	0	0.2	Coarse sand and gravel; red-brown
	S-2	4.0	0	1.1	Coarse sand and gravel; brown to black
Lab	S-3	6	0	23.4	Coarse sand and gravel; brown to black
	S-4	8	0	7.6	Coarse sand and gravel; brown to black
	S-5	10	0	2.7	Coarse sand and gravel; brown to black
	S-6	12	0	3.8	Coarse sand and gravel; brown to black
	S-7	13	0	1.6	Coarse sand and gravel; brown to black
TP-5	S-1	2.0	0	1.7	Silt; some sand and gravel; compact; brown
Lab	S-2	4.0	0	20.6	Coarse sand and gravel; brown to black
	S-3	6	0	0.0	Coarse sand and gravel; brown to black; wood crib
	S-4	8	0	0.0	Coarse sand and gravel; brown to black
	S-5	10	0	0.1	Coarse sand and gravel; brown to black
	S-6	12	0	0.0	Coarse sand and gravel; brown to black
	S-7	14	0	0.3	Coarse sand and gravel; brown to black
TP-6	S-1	2.0	0	0.0	Coarse sand and gravel; red-brown
Lab	S-2	4.0	0	93.7	Coarse sand; some gravel; red-brown to dark brown
	S-3	6	0	25.6	Coarse sand and gravel; brown
	S-4	8	0	10.9	Coarse sand and gravel; brown to black
	S-5	11	0	8.9	Coarse sand and gravel; brown to black
	S-6	13	0	2.2	Coarse sand; trace gravel; brown
	S-7	16	0	4.1	Coarse sand; some gravel; brown

bg = Feet Below Grade; PID = Photoionization Detector; ppm = Parts Per Million; N/A = Not Applicable
Lab [ ] = sample submitted to laboratory
Note PID used for TP-1 was Thermo Environmental Instruments OS II; PID used for remaining test pits was Mini Rae



Source: USGS Map, Anchorage (A-8) NW, Alaska 1979, Revised 1994. Note: Contour Interval is 5 Meters

N

0 ¼ ½ ¾ 1

Approximate Scale in Miles

BGES

Lots 8A, 10, 11, and 12; Block 26A
East Addition
SITE VICINITY MAP

BGES, INC.	Sept. 2004	Figure 1

TABLE 3
Lots 8A, 10, 11, and 12; Block 26A
Test Pit Soil Samples
LABORATORY ANALYTICAL RESULTS

Soil Sample No.	Sample Depth (feet bg)	Parameter	Results (mg/Kg)	PQL (mg/Kg)	Analytical Method	ADEC Soil Cleanup Level (mg/Kg)
TP-1 S6	12	GRO	<2.13	2.13	AK101	300[1]
		Benzene	<0.0107	0.0107	8021B	0.02[2]
		Toluene	<0.0427	0.0427	8021B	5.4[2]
		Ethylbenzene	<0.0427	0.0427	8021B	5.5[2]
		Tot. Xylenes	<0.0427	0.0427	8021B	78[2]
		DRO	<20.4	20.4	AK102	250[1]
		RRO	<20.4	20.4	AK103	10,000[1]
		Tetrachloroethene	4.09	0.213	SW8260B	0.03[1]
		All Other VOCs	ND	Varies	SW8260B	Varies
TP-2 S7	16	GRO	1.67	1.45	AK101	300[1]
		Benzene	<0.00726	0.00726	8021B	0.02[2]
		Toluene	<0.0290	0.0290	8021B	5.4[2]
		Ethylbenzene	<0.0290	0.0290	8021B	5.5[2]
		Tot. Xylenes	<0.0290	0.0290	8021B	78[2]
		DRO	<18.6	18.6	AK102	250[1]
		RRO	<18.6	18.6	AK103	10,000[1]
		Tebachloroethene	4.20	0.145	SW8260B	0.03[1]
		All Other VOCs	ND	Varies	SW8260B	Varies
TP-3 S7	16	GRO	<1.42	1.42	AK101	300[1]
		Benzdne	<0.00710	0.00710	8021B	0.02[2]
		Toluene	<0.0284	0.0284	8021B	5.4[2]
		Ethylbenzene	<0.0284	0.0284	8021B	5.5[2]
		Tot. Xylenes	<0.0284	0.0284	8021B	78[2]
		DRO	<19.7	19.7	AK102	250[1]
		RRO	<19.7	19.7	AK103	10,000[1]
		Trichloroethene	0.0250	0.0142	SW8260B	0.027[1]
		Tetrachloroethene	1.73	0.142	SW8260B	0.03[1]
		All Other VOCs	ND	Varies	SW8260B	Varies
TP-4 S3	6	GRO	<1.44	1.44	AK101	300[1]
		Benzene	<0.00720	0.00720	8021B	0.02[2]
		Toluene	<0.0288	0.0288	8021B	5.4[2]
		Ethylbenzene	<0.0288	0.0288	8021B	5.5[2]
		Tot. Xylenes	<0.0288	0.0288	8021B	78[2]
		DRO	<20.0	20.0	AK102	250[1]
		RRO	<20.0	20.0	AK103	10,000[1]

[1] Soil criteria from Alaska Department of Environmental Conservation (ADEC) 18AAC 75.341, Table B2
[2] Soil criteria from ADEC, 18AAC 75.341, Table B1

Border = Concentration exceeds corresponding ADEC cleanup criterion
bg = below grade
ND = Non Detectable
VOCs = Volatile Organic Compounds
GRO = Gasoline Range Organics
mg/Kg = Milligrams per Kilogram
PQL = Practical Quantitation Limit
DRO = Diesel Range Organics
RRO = Residual Range Organics

TABLE 3
Lots 8A, 10, 11, and 12; Block 26A
Test Pit Soil Samples
LABORATORY ANALYTICAL RESULTS

Soil Sample No.	Sample Depth (feet bgs)	Parameter	Result (mg/Kg)	PQL (mg/Kg)	Analytical Method	ADEC Soil Cleanup Level (mg/Kg)
TP-5 S2	4	GRO	<1.72	1.72	AK101	300[1]
		Benzene	<0.00859	0.00859	8021B	0.02[2]
		Toluene	<0.0344	0.0344	8021B	5.4[2]
		Ethylbenzene	<0.0344	0.0344	8021B	5.5[2]
		Tot. Xylenes	<0.0344	0.0344	8021B	78[2]
		DRO	<19.8	19.8	AK102	250[1]
		RRO	<19.8	19.8	AK103	10,000[1]
TP-6 S2	4	GRO	<1.40	1.40	AK101	300[1]
		Benzene	<0.00702	0.00702	8021B	0.02[2]
		Toluene	<0.0281	0.0281	8021B	5.4[2]
		Ethylbenzene	<0.0281	0.0281	8021B	5.5[2]
		Tot. Xylenes	<0.0281	0.0281	8021B	78[2]
		DRO	<20.5	20.5	AK102	250[1]
		RRO	<20.5	20.5	AK103	10,000[1]

[1] Soil criteria from Alaska Department of Environmental Conservation (ADEC) 18AAC 75.341, Table B2
[2] Soil criteria from ADEC, 18AAC 75.341, Table B1
Border = Concentration exceeds corresponding ADEC cleanup criterion
bg = below grade
ND = Non Detectable
VOCs = Volatile Organic Compounds
GRO = Gasoline Range Organics
mg/Kg = Milligrams per Kilogram
PQL = Practical Quantitation Limit
DRO = Diesel Range Organics
RRO = Residual Range Organics

TABLE S
Lots 5A, 10, 11, and 12; Block 26A
...draulic Lifts and Heating Oil USTs Soil Samples
LABORATORY ANALYTICAL RESULTS

Soil Sample No.	Sample Depth (feet bg)	Analyte	Result (mg/Kg)	PQL (mg/Kg)	Analytical Method	ADEC Soil Cleanup Level (mg/Kg)
SLT-1	4	GRO	<2.89	2.89	AK101	300[1]
		Benzene	<0.0144	0.0144	8021B	0.02[2]
		Toluene	<0.0578	0.0578	8021B	5.4[2]
		Ethylbenzene	<0.0578	0.0578	8021B	5.5[2]
		Tot. Xylenes	<0.0578	0.0578	8021B	78[2]
		DRO	509	201	AK102/103	250[1]
		RRO	3670	201.0	AK102/103	10,000[1]
SLC-2	6	GRO	<2.5	2.50	AK101	300[1]
		Benzene	<0.0125	0.0125	8021B	0.02[2]
		Toluene	<0.0501	0.0501	8021B	5.4[2]
		Ethylbenzene	<0.0501	0.0501	80218	5.5[2]
		Tot. Xylenes	<0.0501	0.0501	8021B	78[2]
		DRO	398	203	AK102/103	250[1]
		RRO	3230	203	AK102/103	10,000[1]
MLC-3	6	GRO	<2.05	2.05	AK101	300[1]
		Benzene	<0.0103	0.0103	8021B	0.02[2]
		Toluene	<0.0410	0.041	8021B	5.4[2]
		Ethylbenzene	<0.0410	0.041	8021B	5.5[2]
		Tot. Xylenes	<0.0410	0.041	8021B	78[2]
		DRO	33.5	19.6	AK102/103	250[1]
		RRO	264	19.6	AK102/103	10,000[1]
T1E-4	6	GRO	<2.17	2.17	AK101	300[1]
		Benzene	<0.0109	0.0109	8021B	0.02[2]
		Toluene	<0.0434	0.0434	8021B	5.4[2]
		Ethylbenzene	<0.0434	0.0434	8021B	5.5[2]
		Tot. Xylenes	<0.0434	0.0434	6021B	78[2]
		DRO	98.3	80.3	AK102/103	250[1]
		RRO	1250	80.3	AK102/103	10,000[1]
T2B-5	6	GRO	<2.44	2.44	AK101	300[1]
		Benzene	<0.0122	0.0122	8021B	0.02[2]
		Toluene	<0.0488	0.0488	8021B	5.4[2]
		Ethylbenzene	<0.0488	0.0488	8021B	5.5[2]
		Tot. Xylenes	<0.0488	0.0488	8021B	78[2]
		DRO	60.8	20.4	AK102/103	250[1]
		RRO	48.8	20.4	AK102/103	10,000[1]
ELC-6	6	GRO	<1.70	1.70	AK101	300[1]
		Benzene	<0.00849	0.00849	6021B	0.02[2]
		Toluene	<0.0340	0.034	8021B	5.4[2]
		Ethylbenzene	<0.0340	0.034	8021B	5.5[2]
		Tot. Xylenes	<0.0340	0.034	8021B	78[2]
		DRO	230	78.6	AK102/103	250[1]
		RRO	1170	78.6	AK102/103	10,000[1]
CP-7	6	GRO	<2.37	2.37	AK101	300[1]
		Benzene	<0.0119	0.0119	8021B	0.02[2]
		Toluene	<0.0474	0.0474	8021B	5.4[2]
		Ethylbenzene	<0.0474	0.0474	8021B	5.5[2]
		Tot. Xylenes	<0.0474	0.0474	8021B	78[2]
		DRO	329	81.3	AK102/103	250[1]
		RRO	1820	81.3	AK102/103	10,000[1]

[1] Soil criteria from Alaska Department of Environmental Conservation (ADEC) 18AAC 75.341, Table B2
[2] Soil criteria from ADEC, 18AAC 75.341, Table B1
Border = Concentration exceeds corresponding ADEC cleanup criterion
bg = below grade; GRO = Gasoline Range Organics; mg/Kg = Milligrams per Kilogram
PQL = Practical Quantitation Limit. DRO = Diesel Range Organics; RRO = Residual Range Organics

TABLE 3
Lots 8A, 10, 11, and 12; Block 26A
Stockpile Soil Samples
LABORATORY ANALYTICAL RESULTS

Soil Sample No.	Sample Depth (feet bg)	Parameter	Results (mg/Kg)	PQL (mg/Kg)	Analysis Method	ADEC Soil Cleanup Level (mg/Kg)
SP-8	1.5	GRO	<1.90	1.90	AK101	300[1]
		Benzene	<0.00952	0.00952	8021B	0.02[2]
		Toluene	<0.0381	0.0381	8021B	5.4[2]
		Ethylbenzene	<0.0381	0.0381	8021B	5.5[2]
		Tot. Xylenes	<0.0381	0.0381	8021B	78[2]
		DRO	208	81.2	AK102	250[1]
		RRO	895	81.2	AK103	10,000[1]
SP-9	1.5	GRO	<1.61	1.61	AK101	300[1]
		Benzene	<0.00803	0.00803	8021B	0.02[2]
		Toluene	<0.0321	0.0321	8021B	5.4[2]
		Ethylbenzene	<0.0321	0.0321	8021B	5.5[2]
		Tot. Xylenes	<0.0321	0.0321	8021B	78[2]
		DRO	408	78.2	AK102	250[1]
		RRO	1010	78.2	AK103	10,000[1]

[1] Soil criteria from Alaska Department of Environmental Conservation (ADEC) 18AAC 75.341, Table B2
[2] Soil criteria from ADEC, 18AAC 75.341, Table B1
Border = Concentration exceeds corresponding ADEC cleanup criterion
bg = below grade
GRO = Gasoline Range Organics
mg/Kg = Milligrams per Kilogram
PQL = Practical Quantitation Limit
DRO = Diesel Range Organics
RRO = Residual Range Organics

APPENDIX A
PHOTOGRAPHS

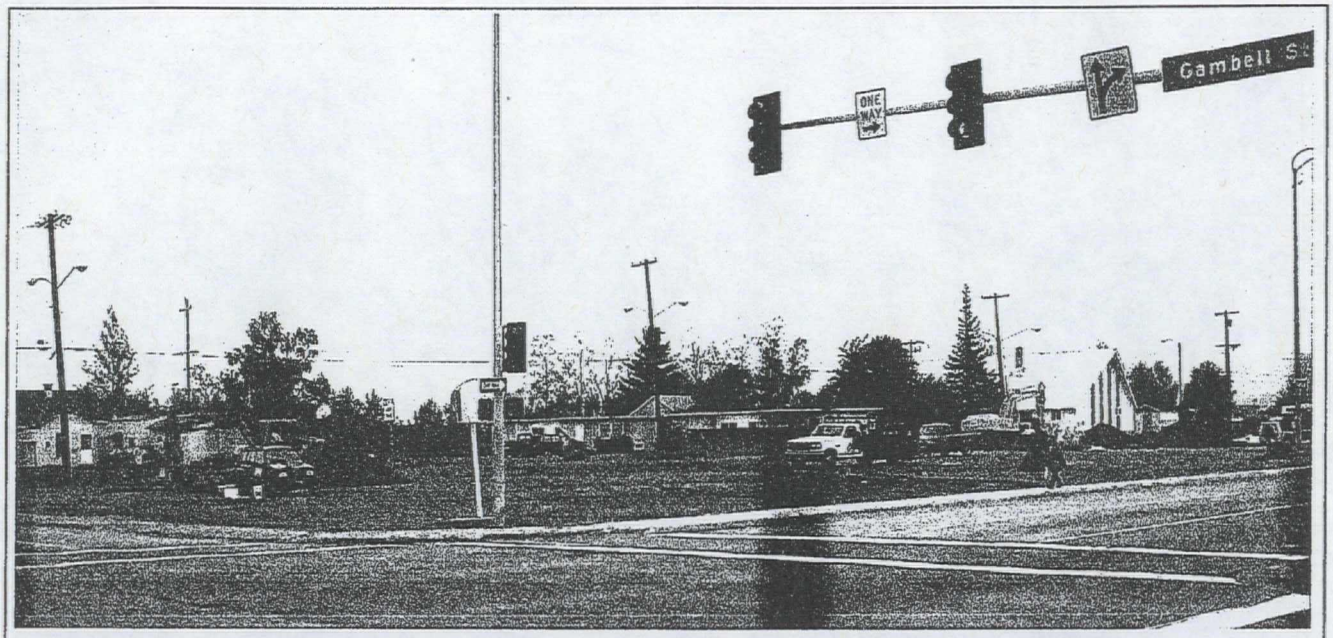


Photo 1. Project site (looking northeast). Excavating Test Pit TP-1 (left); removing hydraulic lifts (right).

Photo 2. Compacting Test Pit TP-1

Photo 3. TP-4 (42 feet long); looking east

Lots 8A, 10, 11, and 12; Block 26A East Addition; Anchorage, Alaska **Property Photographs**		
BGES, INC.	**September 2004**	**Figure A-1**

Photo 4. TP-3 – Note, wooden crib remains of septic system

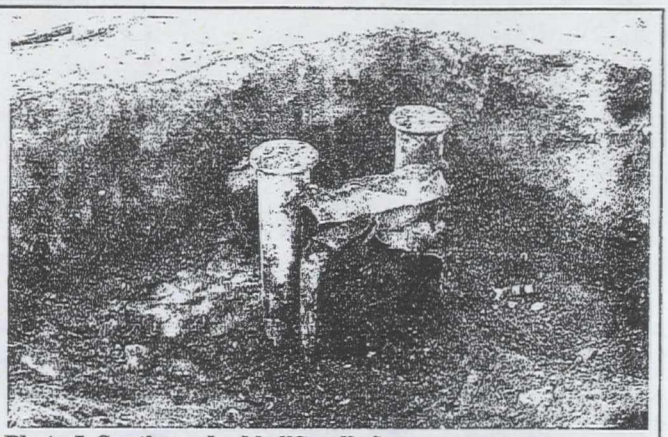


Photo 5. Southern double lift cylinder

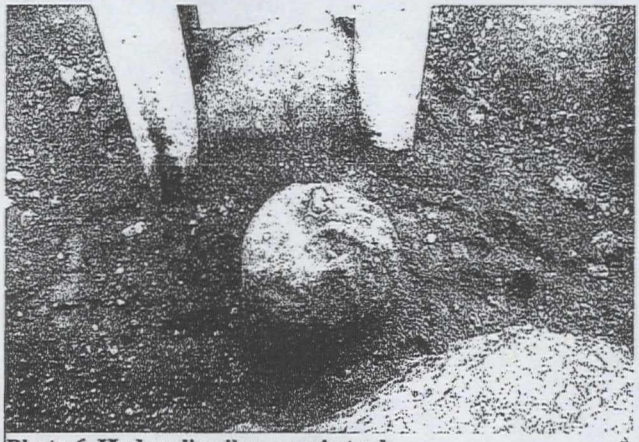


Photo 6. Hydraulic oil reservoir tank

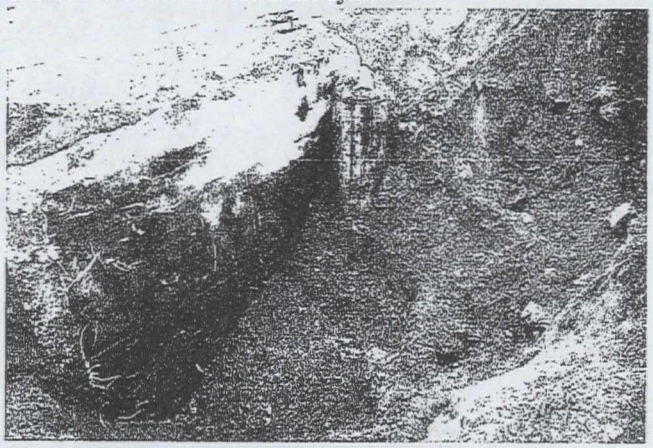


Photo 7. Stained wall of concrete vault and reservoir tank

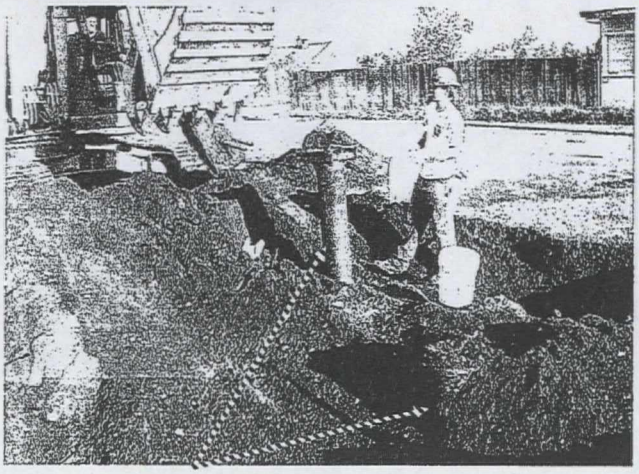


Photo 8. Hydraulic lift cylinders

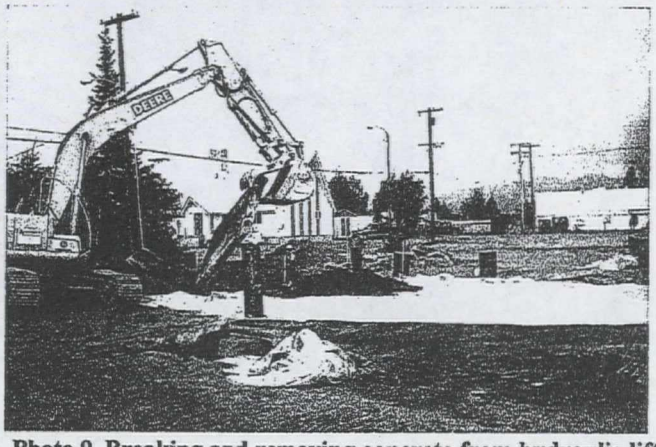


Photo 9. Breaking and removing concrete from hydraulic lift area

Lots 8A, 10, 11, and 12; Block 26A East Addition; Anchorage, Alaska **Property Photographs**		
BGES, INC.	**September 2004**	**Figure A-2**

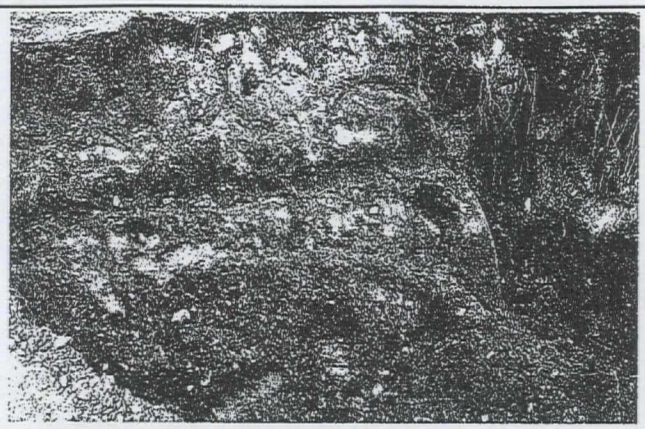


Photo 10. Heating oil UST in place

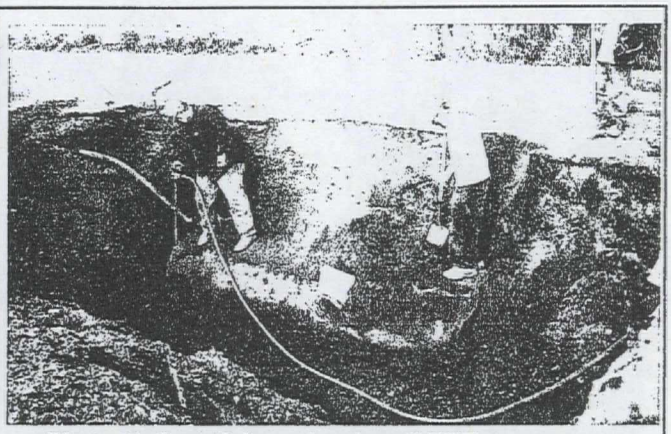


Photo 11. Second, lower heating oil UST

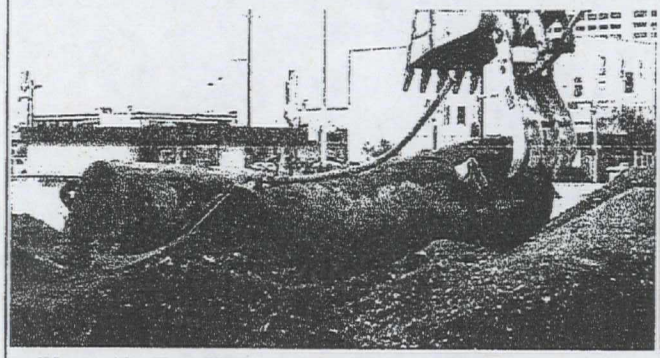


Photo 12. Two USTs removed from ground

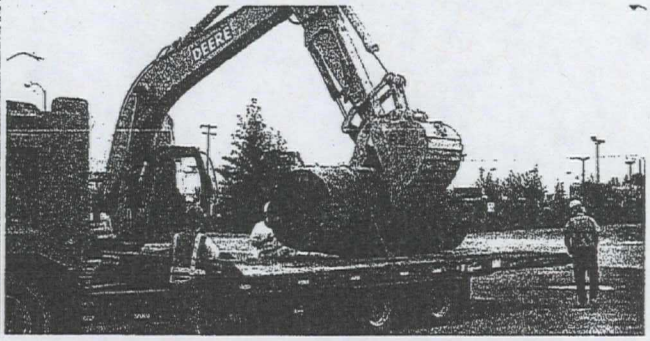


Photo 13. Loading UST for disposal

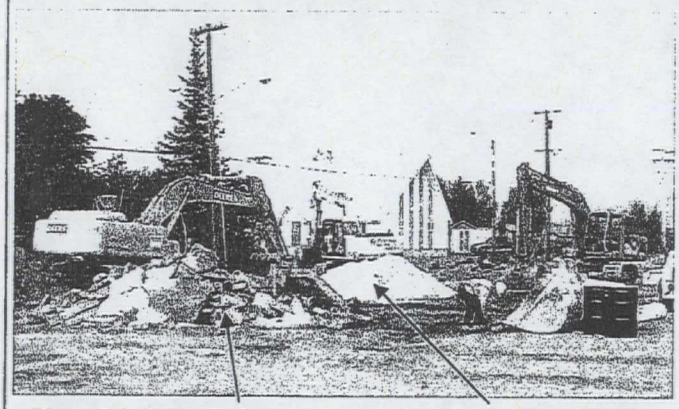


Photo 14. Stockpiled concrete and lined contaminated soil stockpile with backfilling excavation in the background

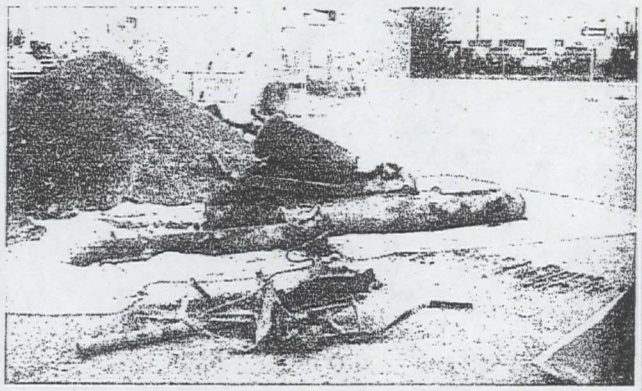


Photo 15. Removed cylinders, reservoir tank and metal debris

Lots 8A, 10, 11, and 12; Block 26A East Addition; Anchorage, Alaska **Property Photographs**		
BGES, INC.	**September 2004**	**Figure A-3**

APPENDIX B

ADEC SPILL NOTIFICATION FORM

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

OIL & HAZARDOUS SUBSTANCES SPILL NOTIFICATION

ADEC SPILL #	ADEC FILE #	ADEC LC

PERSON REPORTING	PHONE NUMBER	REPORTED HOW?
Robert N. Braunstein	(907) 696-2437	Troopers phone fax

DATE/ TIME OF SPILL	DATE/TIME DISCOVERED	DATE/TIME REPORTED
Unknown	9/16/04	9/17/04 11AM

LOCATION/ADDRESS		SUBSTANCE TYPE	PRODUCT
Lots 8A, 10, 11, and 12 East Addition	LAT.	A) CR EHS HS NC PW UNK	A) Diesel Range Org.
	LONG.	B) CR EHS HS NC PW UNK	B) Tetrachloroethylene

QUANTITY SPILLED	QDANTITY CONTAINED	QUANTITY RECOVERED	QUANTITY DISPOSED
Unknown ☐ gallons ☐ pounds	N/A ☐ gallons ☐ pounds	≈10 cubic yards soil ☐ gallons ☐ pounds	☐ gallons ☐ pounds

POTENTIAL RESPONSIBLE PARTY C-Plan Holder? YES ☐ NO ☐	FACILITY TYPE
Paul Maney / Alaskan Real Estate, Inc.	Parking lot - unpaved

SOURCE OF SPILL	☐ >400 GT Vessel?
Hydraulic lifts and Dry Cleaneus? Both were former operations	

CAUSE OF SPILL (List Primary Cause first)	
Unknown	☐ Accident ☐ Human Factors ☐ Stiuctural/Mechanicnl ☐ Other

CLEANUP ACTIONS: Removed approximately 10 cubic yards of soil with hydraulic fluid contamination and stockpiled on a liner on site pending ADEC approval to transport and dispose.

DISPOSAL METHODS AND LOCATION: ASR - Thermal treatment - Anchorage

RESOURCES AFFECTED/THREATENED (Water sources, wildlife, wells, etc.)	AIR	LAND	MARINE	FRESH	SURF. AREA AFFECTED	SURF. TYPE
	☐	X	☐	☐	unknown	gravel

COMMENTS: BGES, Inc. will be submitting a work plan to the ADEC for assessing the ~~extent~~ of tetrachloroethylene contamination.

DEC USE ONLY

SPILL NAME, IF ANY	NAMES OF DEC STAFF RESPONDING	C-PLAN MGR NOTIFIED YES ☐ NO ☐ _____

DEC RESPONSE	CASELOAD CODE	CLEANUP CLOSURE ACTION
☐ phone follow-up ☐ field visit ☐ took report	☐ First and Final ☐ Open/No LC ☐ LC assigned	☐ NFA ☐ Monitoring ☐ Transferred to CS or STP

STATUS OF CASE (circle) OPEN CLOSED DATE CASE CLOSED _____

COMMENTS:

REPORT PREPARED BY	DATE

revised June 19, 2004

BGES, INC.
Providing Environmental and Geological Consulting Services

P.O. Box 110126
Aachorage, Alaska 99511-0126
Ph: (907) 644-2900
Fax: (907) 644-2901

September 17, 2004

Project Manager
Alaska Department of Environmeatal Conservation
555 Cordova Street
Anchorage, Alaska 99501

RE: RELEASE NOTIFICATION AND REQUEST TO TRANSPORT SOILS FOR OFF-SITE THERMAL TREATMENT, LOTS 8A, 10, 11, AND 12, EAST ADDITION SUBDIVISION, ANCHORAGE, ALASKA

Dear Project Manager:

BGES, Inc. (BGES) has been requested by our client, Paul Maney, owner of the above-referenced property, to notify you of releases of contaminatioa on his property located at Lots 8A, 10, 11, and 12, Block 26A, Bast Addition, Anchorage, Alaska. The property is located along 4th Avenue, between Gambell Street and Hyder Street. The contanuination was discovered during a recent site assessment performed by BGES. As part of the assessment, six test pits were excavated, and five hydraulic lifts and four underground storage tanks (USTs) were removed from the property. Two of the USTs were apparently heating oil USTs and two of the USTs held hydraulic fluid. A relatively small volume of contaminated soils (approximately 10 cubic yards) from the hydraulic lift excavations was stockpiled on a liner on site.

Soil samples obtained from the test pits and submitted for laboratory analysis indicated concentrations of Tetraohloroethylene (PCE), ranging from 1.73 to 4.20 milligrams per kilogram (mg/Kg), which exceed the ADEC soil cleanup criterion of 0.03 mg/Kg. In addition, soil samples from the hydraulic lift and hydraulic tank areas exhibited diesel range organics (DRO) concentrations that exceeded the ADEC cleanup criterion and ranged from 329 mg/Kg to 509 mg/Kg. Furthermore, two soil samples obtained from stockpiled soils (Samples SP-8 and SP-9) removed from the hydraulic lift areas exhibited respective DRO concentrations of 208 mg/Kg and 428, the latter of which exceeds the

ADEC cleanup criterion. Samples SP-8 and SP-9 exhibited residual range organics concentrations of 895 and 1010 mg/Kg, respectively. The laboratory analytical results are attached.

We are hereby requesting ADEC approval to transport the stockpiled soils to Alaska Soil Recycling in Anchorage for thermal treatment and disposal. You may indicate your approval by signing the authorization block below. Because the stockpile is located in a high-profile area, we are requesting a timely response to this letter. We will be submitting a work plan for your approval prior to continuing our assessment of this property.

Sincerely,

BGES, INC.

Prepared by:
Robert N. Braunstein
Robert N. Braunstein
Principal Geologist

Encl: Laboratory Analytical Results

ADEC AUTHORIZATION TO REMOVE SOILS FROM THE SITE:

I have reviewed this correspondence and authorize the stockpiled soils at Lots 8A, 10, 11, and 12, Block 26A, East Addition, in Anchorage, Alaska to be transported to Alaska Soil Recycling for Disposal.

Signature of Authorized ADEC Representative

Environmental Specialist III
Title/Affiliation

David J. Pikul
Printed Name of Authorized Representative

9/22/04
Date

Additional Considerations, if any: _____

ADEC has no objection to the proposed transportation of contaminated soil to a thermal treatment facility conditional on the following: it is containerized and/covered during transport; and the treatment facility is authorized to treat the contaminated material in accordance with applicable laws and regulations.

Pumuant to your written request – the material will be transported to Anchorage Soil Recycling for thermal treatment and disposal. ADEC recognizes this facility as an approved treatment facility and approves of the proposed treatmant in accordance with the terms of their operating permit.

APPENDIX C
MATERIAL DISPOSAL DOCUMENTATION

— 283428
INVOICE NO.

ALASKA BASIC INDUSTRIES
1040 O'Malley Road, Anchorage, Alaska 99515
(907) 349-3333

DIVISIONS:
ANCHORAGE SAND & GRAVEL
DIMOND FABRICATORS
ALASKA SOIL RECYCLING

DATE 8-30-04

BCY

4th, Hyder

JOB OR ORDER NO. PC 174

SUB DIV.
LOT

BLOCK

1 CHARGE ✓ 2 CASH 2 C.O.D. DELIVERY PICK-UP

Quantity	UNIT	Product No.	DESCRIPTION	Unit Price	AMOUNT
30	CY	1999	Concrete	10.00	300.00

DELIVERY ZONE
LV. YD.
ARR. JOB
25 PLANT
LV. JOB
ARR. YD.

TRK 170

TOTAL 300.00

DRIVER

1% Service charge on Past Due Accounts — Annual Percentage Rate 12%

RECEIVED BY X

Municipality of Anchorage
Solid Waste Services

DATE: 08/30/2004 LOG: ANCHORAGE REGIONAL LANDFILL TIME OUT: 11:29

BILL TO: B & C EXCAVATING
ACCT NBR: 10-521114.01
VEH ID: SNOWMAN CONT:

4th & Hyder

COMMODITY: LOOSE REFUSE COST PER TON: $45.00

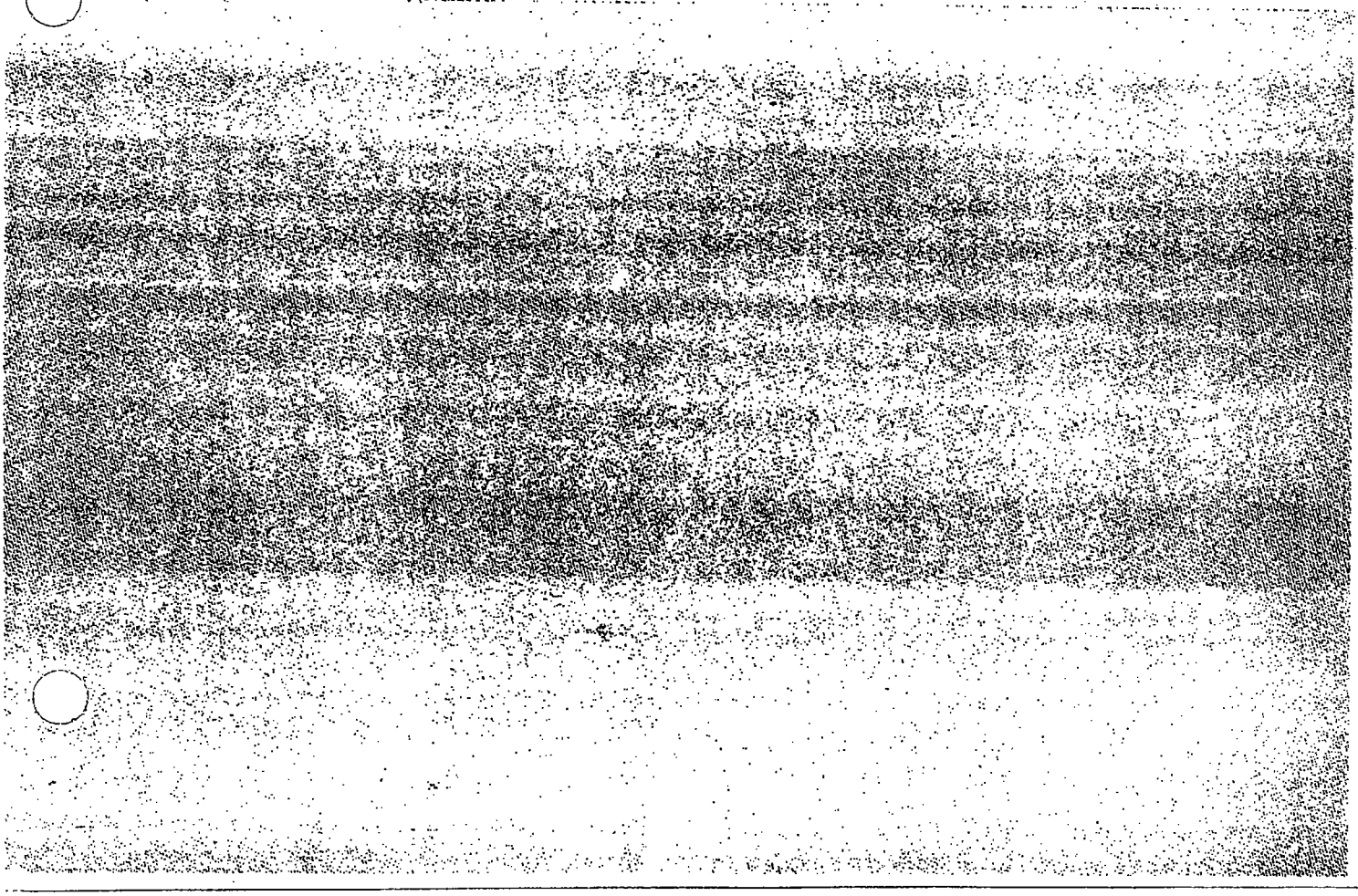
GROSS WEIGHT:	42,860	AMOUNT:	$172.35
TARE WEIGHT:	35,200	ADDTL CHARGES:	
NET WEIGHT:	7,660	SURCHARGE:	
		TOTAL AMOUNT DUE:	$172.35
		AMOUNT PAID:	

ADDITIONAL CHARGES DESCRIPTION:

IF YOU SPEND MORE THAN 15 MINS. OFF-LOADING ON THE TRANSFER STATION TIPPING FLOOR, YOU WILL BE CHARGED AN ADDITIONAL $40.00 HANDLING CHARGE

DRIVER'S SIGNATURE

INVOICE: 35348



NON-DOT
BILL OF LADING
THIS IS NOT AN INVOICE

PT- 01301

Emerald Alaska Inc.
(907) 258-1568
1-877-375-5040 Tpll Free
Facility Address: 2020 Viking Drive, Anchorage, AK 99501
EPA ID# Transporter WADO58364647 / Facility AKR000604184

JOB # _____

MANIFEST # _____

DOT BOL Y / N

Account Name: BC Excavating Account #: BCE1000 Date: 9-2-04

Bite Address: 2251 Cinnabar Loop Billing Address: _____

City: Anchorage City: SAME

State & Zip: AK. 99507 State & Zip: _____

Driven Keith Equip. No. 31

Other: Route 801 Other: _____

Customer Phone Number: 344-1490 Customer Contact: Rob Haines

RO. Number: _____ Next Service Date: _____

Qty/Gal	Item	Description	Unit Price	Amount
4	UO	Used Oil (not USDOT Regulated) 55 DM		
1	CHLOR	Chior D Tect Test™ Pass ___ Fail		
	OWS	Oily Sludge		
	OF100	Used Oil Filters (no Gasket) - crushed		
	MF	Off Spec Fuel (Requires DOT BOL)		
	OW	Oily Water		
	AFN	Antifreeze, New 60/40 R/C		
	AFU	Used Antifreeze (Recycling)		
	PWS	Partwasher Service MOD/COM _____		
	US	Used Solvent (REQUIRES MANIFEST)		
	AM	New Absorbent Pads		
	AMU	Used Absorbent Pads		
	EMWWF	Emerald Window Washer Fluid		
	DRUMW	Drum Disposal		
	SERV	Service Fee		
	TT	Tmck/Operator Time		
	AFUNO	Industrial Rate Antifreeze		
	AFEXT	Extended Life Antifreeze 60/40		
		TOTAL		

Stop Time _____

Signature: _____ Date: 9-2-04

ALASKA METAL RECYCLING

ALASKA'S LEADER IN METALS RECYCLING

349-4833

DATE 9/3/04 LICENSE NO.

CUSTOMER NAME

149018

ADDRESS

SHREDDER MATERIAL #1 IRON CAST CAR OTHER

REMARKS 2 1000 gallon Tanks

CHECK NO. N/C

DRIVER ON ☐ OFF ☐

GROSS LBS. 35480 lb

TARE LBS. 33840 lb

NET LBS. 1640

I hereby certify that I have the right to possess and sell this property.

PRICE N/C PER TOTAL N/C

SIGNED BY

ALASKA METAL RECYCLING

ALASKA'S LEADER IN METALS RECYCLING

349-4833

DATE 9/3/04 LICENSE NO.

149104

CUSTOMER NAME BI Excavating

ADDRESS

SHREDDER MATERIAL	#1 IRON	CAST	CAR	OTHER	CHECK NO. NIL
REMARKS Cutting				Hoists & Tanks (Hyd)	DRIVER ON ☐ OFF ☐

GROSS LBS. 32580 lb

TARE LBS. 29740 lb

NET LBS. 2840

I hereby certify that I have the right to possess and sell this property.

PRICE NIL PER TOTAL 0

SIGNED BY

APPENDIX D

LABORATORY ANALYTICAL RESULTS

SGS

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.sgsenvironmental.com

Keith Guyer
BGES Inc.
P.O. Box 110126
Anchorage, AK 99511

Work Order:	1045539
	4th & Gambell 04-038-01
Client:	BGES Inc.
Report Date:	September 14, 2004

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Control Manual that outlines this program is available at your request. The laboratory ADEC certification numbers are AK08-03 (DW), UST-005 (CS) and AK00971 (Micro).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS Quality Assurance Program Plan and the National Environmental Laboratory Accreditation Conference.

If you have any questions regarding this report or if we can be of any other assistance, please call your SGS Project Manager a (907) 562-2343.

The following descriptors may be found on your report which will serve to further qualify the data.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates an estimated value that falls below PQL, but is greater than the MDL.
J	The quantitation is an estimation.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is high outside of calibrated range.

Note: Soil samples are reported on a dry weight basis unless otherwise specified

SGS

SGS Ref.#	1045539001	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 10:05
Client Sample ID	SLT-1	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Released By Shawn Poston

Sample Remarks:

DRO/RRO - The pattern is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	2.89 U	2.89	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.0144 U	0.0144	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0578 U	0.0578	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0578 U	0.0578	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0578 U	0.0578	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0578 U	0.0578	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <surr>	94		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <surr>	101		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	509	201	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	3670	201	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
5a Androstane <surr>	93.8		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
n-Triacontane-d62 <surr>	76		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Solids									
Total Solids	93.8		%	SM20 2540G	B			09/07/04	AHP

SGS

SGS Ref.#	1045539002	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 10:48
Client Sample ID	SLC-2	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Released By Shawn Paxton

Sample Remarks:

DRO/RRO - The pattern is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	2.50 U	2.50	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.0125 U	0.0125	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0501 U	0.0501	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0501 U	0.0501	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0501 U	0.0501	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0501 U	0.0501	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <surr>	96.5		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <surr>	99.2		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	398	203	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	3230	203	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <surr>	135		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <surr>	76.5		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Solids									
Total Solids	96.2		%	SM20 2540G	B			09/07/04	AHP

SGS

SGS Ref.#	1045539003
Client Name	BGES Inc.
Project Name/#	4th & Gambell 04-038-01
Client Sample ID	MLC-3
Matrix	Soil/Solid

All Dates/Times are Alaska Standard Time

Printed Date/Time	09/14/2004 16:14
Collected Date/Time	08/28/2004 11:44
Received Date/Time	08/30/2004 8:14
Technical Director	Stephen C. Ede

Released By Shawn Paxton

Sample Remarks:

DRO/RRO - The pattern is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	2.05 U	2.05	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.0103 IJ	0.0103	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0410 U	0.0410	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0410 U	0.0410	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0410 U	0.0410	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0410 U	0.0410	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <sun>	93.5		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <surr>	101		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	33.5	19.6	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	264	19.6	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <sun>	105		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <sun>	80.4		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Solids									
Total Solids	95.6		%	SM20 2540G	B			09/07/04	AHP

SGS

SGS Ref.#	1045539004	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 13:00
Client Sample ID	T1E-4	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Released By Shawn Poston

Sample Remarks:

DRO/RRO - The pattem is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	2.17 U	2.17	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.0109 U	0.0109	rag/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0434 U	0.0434	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0434 U	0.0434	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0434 U	0.0434	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0434 U	0.0434	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <sun>	96.9		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <sun>	95.5		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	98.3	80.3	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	1250	80.3	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <sun>	133		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <sun>	64.1		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Solids									
Total Solids	95.2		%	SM20 2540O	B			09/07/04	AHP

SGS

SGS Ref.#	1045539005	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Nanie/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 13:44
Client Sample ID	T2B-5	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede
		Released By	Shawn Poston

Sample Remarks:

DRO - The pattern is consistent with a weathered middle distillate.
RRO - Unknown hydrocarbon with several peaks is present.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	2.44 U	2.44	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.0122 U	0.0122	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0488 U	0.0488	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Edylbenzene	0.0488 U	0.0488	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0488 U	0.0488	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
ylene	0.0488 U	0.0488	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <surr>	94.9		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <sun>	95.3		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Departanent									
Diesel Range Organics	60.8	20.4	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	48.8	20.4	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <sun>	143		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <sun>	93.3		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Solids									
Total Solids	96.5		%	SM20 2540G	B			09/07/04	AHP

SGS

SGS Ref.#	1045539006	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 14:42
Client Sample ID	ELC-6	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede
		Released By	Shawn Paton

Sample Remarks:

DRO/RRO - The pattern is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	1.70 U	1.70	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.00849 U	0.00849	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0340 U	0.0340	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0340 U	0.0340	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0340 U	0.0340	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0340 U	0.0340	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <sun>	95.9		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <sun>	105		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	230	78.6	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	1120	78.6	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <sun>	141		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <sun>	87.2		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Solids									
Total Solids	96.5		%	SM20 2540O	B			09/07/04	AHP

SGS

SGS Ref.#	1045539007	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 17:48
Client Sample ID	CP-7	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede
		Released By	Shawn Patton

Sample Remarks:

DRO/RRO - The pattern is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	2.37 U	2.37	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.0119 U	0.0119	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0474 U	0.0474	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0474 U	0.0474	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0474 U	0.0474	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0474 U	0.0474	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <surr>	98.5		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <surr>	92.4		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	329	81.3	mg/Kg	AK102/103	B		08/31/04	09/02/04	JC
Residual Range Organics	1820	81.3	mg/Kg	AK102/103	B		08/31/04	09/02/04	JC
Surrogates									
n-Triacontane-d62 <surr>	99.7		%	AK102/103	B	50-150	08/31/04	09/02/04	JC
5a Androstane <surr>	85.4		%	AK102/103	B	50-150	08/31/04	09/02/04	JC
Solids									
Total Solids	91.7		%	SM20 2540G	B			09/07/04	AHP

SGS

SGS Ref.#	1045539010	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 9:40
Client Sample ID	TP-1 SG	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Released By Shawn Patton

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	2.13 U	2.13	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.0107 U	0.0107	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0427 U	0.0427	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzaie	0.0427 U	0.0427	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0427 U	0.0427	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0427 U	0.0427	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <surr>	94		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <sun>	104		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	20.4 U	20.4	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	20.4 U	20.4	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <surr>	104		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <surr>	92.7		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Volatile Gas Chromatography/Mass Spectroscopy									
Dichlorodifluoromethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chloromethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Vinyl chloride	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromomethane	0.0854 U	0.0854	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chloroethane	0.0854 U	0.0854	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Trichlorofluoromethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
)ichloroethene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Acetone	0.213 U	0.213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Carbon disulfide	0.0854 U	0.0854	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV

SGS

SGS Ref.#	1045539010	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 9:40
Client Sample ID	TP-1 SG	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatogzaphy/Mass Spectroscopy									
Methylene chloride	0.0854 U	0.0854	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
trans-1,2-Dichloroethene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Butaaone (MEK)	0 213 U	0.213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2,2-Dichloropropane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,1-Trichloroethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1-Dichloroethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
cis-1,2-Dichloroethene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromochloromethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chloroform	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Carbon tetrachloride	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Benzene	0.0111 U	0.0111	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dichloroethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1-Dichloropropene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Trichloroethene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dichloropropane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Dibromomethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromodichloromethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,2-Trichloroethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Chloroethyl Vinyl Ether	0.0854 U	0.0854	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
cis-1,3-Dichloropropene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Methyl-2-pentanone (MIBK)	0 213 U	0.213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Toluene	0.0427 U	0.0427	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
trans-1,3-Dichloropropene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Tetrachloroethene	4.09	0.213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,3-Dichlorppropane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Hexanone	0.213 U	0.213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Dibromochloromethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,1,2-Tetrachloroethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dibromoethane	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chlorobenzene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Ethylbenzene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
M-Xylene	0.0427 U	0.0427	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
o-Xylene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Styrene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV

SGS

SGS Ref#	1045539010	All Dates/Tiines are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 9:40
Client Sample ID	TP-1 SG	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Bromoform	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Isopropylbenzene (Cumene)	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromobenzene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,3-Triehloropropane	0.0427 U	0.0427	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,2,2-Tebachloroethane	0.0427 U	0.0427	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
n-Propylbenzene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Chlorotoluene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Chlorotoluene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,3,5-Trimethylbenzene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Butylbenzene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,4-Trimethylbenzene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
sec-Butylbenzene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,3-Dichlorobenzene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Isopropyltoluene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,4-Dichlorobenzene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dichlorobenzene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
n-Butylbenzene	0.0213 U	0.0213	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dibromo-3-chloropropane	0.0854 U	0.0854	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,4-Trichlorobenzene	0.0427 U	0.0427	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Hexachlorobutadiene	0.0427 U	0.0427	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Naphthalene	0.0427 U	0.0427	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,3-Trichlorobenzene	0.0427 U	0.0427	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Methyl-t-butyl ether	0.0341 U	0.0341	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Surrogates									
Dibromofluoromethane <surr>	100		%	SW8260B	A	83-119	08/28/04	09/10/04	RMV
1,2-Dichloroethane-D4 <sun>	102		%	SW8260B	A	83-122	08/28/04	09/10/04	RMV
Toluene-d8 <surr>	101		%	SW8260B	A	87-115	08/28/04	09/10/04	RMV
4-Bromofluorobenzene <sun>	97.8		%	SW8260B	A	46-133	08/28/04	09/10/04	RMV
Solids									
Total Solids	97.5		%	SM20 2540G	B			09/07/04	AHP

SGS

SGS Ref.#	1045539010
Client Name	BGES Inc.
Project Name/#	4th & Gambell 04-038-01
Client Sample ID	TP-1 SG
Matrix	Soil/Solid

All Dates/Tihes are Alaska Standard Time

Printed Date/Time	09/14/2004 16:14
Collected Date/Time	08/28/2004 9:40
Received Date/Time	08/30/2004 8:14
Technical Director	Stephen C. Ede

Released By

SGS

SGS Ref.#	1045539011	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 12:24
Client Sample ID	TP-2 S7	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Released By Shawn Paxton

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	1.67	1.45	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.00726 U	0.00726	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0290 U	0.0290	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0290 U	0.0290	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0290 U	0.0290	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0290 U	0.0290	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <surr>	96.8		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <surr>	104		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	18.6 U	18.6	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	18.6 U	18.6	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <sur>	98.6		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <surr>	83.2		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Volatile Gas Chromatography/Mass Spectroscopy									
Dichlorodifluoromethane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chloromethane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Vinyl chloride	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromomethane	0.0581 U	0.0581	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chloroethane	0.0581 U	0.0581	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Trichlorofluoromethane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1-Dichloroethene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Acetone	0.145 U	0.145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Carbon disulfide	0.0581 U	0.0581	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV

SGS

SGS Ref.#	1045539011	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 12:24
Client Sample ID	TP-2 S7	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Methylene chloride	0.0581 U	0.0581	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
trans-1,2-Dichloroethene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Butanone (MEK)	0.145 U	0.145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2,2-Dichloropropane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,1-Trichloroethane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
cis-1,2-Dichloroethene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1-Dichloroethane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromochloromethane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
profonn	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
rbon tetrachloride	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Benzene	0.00755 U	0.00755	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dichloroethane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1-Dichloropropene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Trichloroethene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dichloropropane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Dibromomethane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromodichioromethane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,2-Trichloroethane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Chloroethyl Vinyl Ether	0.0581 U	0.0581	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
cis-1,3-Dichloropropene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Methyl-2-pentanone (MIBK)	0.145 U	0.145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Toluene	0.0290 U	0.0290	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
trans-1,3-Dichloropropene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Tetrachloroethene	4.20	0.145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,3-Dichloropropane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Hexanone	0.145 U	0.145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Dibromochloromethane	0.0145 U	0.0145	nig/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,1,2-Tetrachloroethane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dibromoethane	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chlorobenzene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Ethylbenzene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
M-Xylene	0.0290 U	0.0290	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
d-Xylene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Styrene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV

SGS

SGS Ref.#	1045539011	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 12:24
Client Sample ID	TP-2 S7	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Bromoform	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Isopropylbenzene (Cumene)	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromobenzene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,3-Trichloropropane	0.0290 U	0.0290	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,2,2-Tetrachloroethane	0.0290 U	0.0290	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
n-Propylbenzene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Chlorotoluene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Chlorotoluene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,3,5-Trimethylbenzene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
tert-Butylbenzene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,4-Trimethylbenzene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
sec-Butylbenzene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,3-Dichlorobenzene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Isopropyltoluene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,4-Dichiorobenzene	0.0145 U	0.0145	ing/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dichlorobenzene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
n-Butylbenzene	0.0145 U	0.0145	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dibrpmo-3-chloropropane	0.0581 U	0.0581	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,4-Trichlorobenzene	0.0290 U	0.0290	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Hexachlorobutadiene	0.0290 U	0.0290	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Naphthalene	0.0290 U	0.0290	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Methyl-t-butyl ether	0.0232 U	0.0232	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,3-Trichlorobenzene	0.0290 U	0.0290	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Surrogates									
Dibromofluoromethane <surr>	99.9		%	SW8260B	A	83-119	08/28/04	09/10/04	RMV
1,2-Dichloroethane-D4 <surr>	101		%	SW8260B	A	83-122	08/28/04	09/10/04	RMV
Toluene-d8 <surr>	99.7		%	SW8260B	A	87-115	08/28/04	09/10/04	RMV
4-Bromofluorobenzene <surr>	101		%	SW8260B	A	46-133	08/28/04	09/10/04	RMV
Solids									
Total Solids	96.6		%	SM20 2540G	B			09/07/04	AHP

SGS

SGS Ref.#	1045539012	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 14:17
Client Sample ID	TP-3 S7	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede
		Released By	Shawn Paxton

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	1.42 U	1.42	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.00710 U	0.00710	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0284 U	0.0284	mg/Kg	AK101 S021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0284 U	0.0284	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0284 U	0.0284	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0284 U	0.0284	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <surt>	97.8		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromoflaorobenzene <sun>	103		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	19.7 U	19.7	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	19.7 U	19.7	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <surr>	90.8		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <sun>	78.5		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Volatile Gas Chromatography/Mass Spectroscopy									
Dichlorodifluoromethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chloromethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Vinyl chloride	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromomethane	0.0568 U	0.0568	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chloroethane	0.0568 U	0.0568	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Trichlorofluoromethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Dichloroethene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Acetone	0.142 U	0.142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Carbon disulfide	0.0568 U	0.0568	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV

SGS

SGS Ref.#	1045539012	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 14:17
Client Sample ID	TP-3 S7	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Methylene chloride	0.0568 U	0.0568	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
trans-1,2-Dichloroethene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Butanone (MEK)	0.142 U	0.142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2,2-Dichloropropane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,1-Trichloroethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
cis-1,2-Dichloroethene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1-Dichloroethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromochloromethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chloroform	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Carbon tetrachloride	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Benzene	0.00738 U	0.00738	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1-Dichloropropene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dichloroethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Trichloroethene	0.0250	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dichloropropane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Dibromomethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromodichloromethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Chloroethyl Vinyl Ether	0.0568 U	0.0568	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,2-Trichlproethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
cis-1,3-Dichloropropene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Methyl-2-pentanone (MIBK)	0.142 U	0.142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Toluene	0.0284 U	0.0284	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
trans-1,3-Dichloropropene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Tetrachloroethene	1.73	0.142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,3-Dichloropropane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Hexanone	0.142 U	0.142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Dibromochloromethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,1,2-Tetrachloroethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dibromoethane	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chlorobenzene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Ethylbenzene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
M -Xylene	0.0284 U	0.0284	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Xylene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Styrene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV

SGS

SGS Ref.#	1045539012	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4di & Gambell 04-038-01	Collected Date/Time	08/28/2004 14:17
Client Sample ID	TP-3 S7	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Bromoform	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Isopropylbenzene (Cumene)	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromobenzene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,3-Trichloropropane	0.0284 U	0.0284	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,2,2-Tetrachloroethane	0.0284 U	0.0284	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
n-Propylbenzene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Chlorotoluene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Chlorotoluene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,3,5-Trimethylbenzene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
t-Butylbenzene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,4-Trimethylbenzene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
sec-Butylbenzene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,3-Dichlorobenzene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Isopropyltoluene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,4-Dichlorobenzene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dichlorobenzene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
n-Butylbenzene	0.0142 U	0.0142	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dibromo-3-chloropropane	0.0568 U	0.0568	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,4-Trichlorobenzene	0.0284 U	0.0284	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Hexachlorobutadiene	0.0284 U	0.0284	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Naphthalene	0.0284 U	0.0284	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,3-Trichlorobenzene	0.0284 U	0.0284	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Methyl-t-butyl ether	0.0227 U	0.0227	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Surrogates									
Dibromofluoromethane <sun>	104		%	SW8260B	A	83-119	08/28/04	09/10/04	RMV
1,2-Dichloroethane-D4 <sun>	107		%	SW8260B	A	83-122	08/28/04	09/10/04	RMV
Toluene-d8 <sun>	103		%	SW8260B	A	87-115	08/28/04	09/10/04	RMV
4-Bromofluorobenzene <sun>	104		%	SW8260B	A	46-133	08/28/04	09/10/04	RMV
Solids									
Total Solids	97.7		%	SM20 2540G	B			09/07/04	AHP

SGS

SGS Ref.#	1045539013	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 15:37
Client Sample ID	TP-4 S3	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Released By Shawn Poston

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	1.44 U	1.44	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.00720 U	0.00720	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0288 U	0.0288	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0288 U	0.0288	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0288 U	0.0288	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0288 U	0.0288	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <surr>	93.9		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <surr>	101		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	20.0 U	20.0	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	20.0 U	20.0	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <surr>	93.2		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <surr>	84		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Solids									
Total Solids	96.5		%	SM20 2540G	B			09/07/04	AHP

SGS

SGS Ref.#	1045539014
Client Name	BGES Inc.
Project Name/#	4th & Gambell 04-038-01
Client Sample ID	TP-5 S2
Matrix	Soil/Solid

All Dates/Times are Alaska Standard Time

Printed Date/Time	09/14/2004 16:14
Collected Date/Time	08/28/2004 16:26
Received Date/Time	08/30/2004 8:14
Technical Director	Stephen C. Ede

Released By Shawna Patton

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	1.72 U	1.72	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.00859 U	0.00859	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0344 U	0.0344	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0344 U	0.0344	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0344 U	0.0344	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0344 U	0.0344	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <surr>	95.7		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <sun>	104		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	19.8 U	19.8	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	19.8 U	19.8	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <surr>	88.8		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <surr>	83.2		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Solids									
Total Solids	97.0		%	SM20 2540G	B			09/07/04	AHP

SGS

SGS Ref.#	1045539015	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 17:27
Client Sample ID	TP-6 S2	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede
		Released By	Shawn Paxton

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	1.40 U	1.40	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.00702 U	0.00702	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0281 U	0.0281	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0281 U	0.0281	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0281 U	0.0281	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0281 U	0.0281	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <surr>	95.8		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <sun>	101		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	20.5 U	20.5	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	20.5 U	20.5	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <surr>	89.5		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <surr>	79.9		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Solids									
Total Solids	97.4		%	SM20 2540G	B			09/07/04	AHP

SGS

SGS Ref.#	1045539016	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 10:05
Client Sample ID	Trip Blank	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Released By Shawn Poston

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	hnit
Volatile Fuels Department									
Gasoline Range Organics	2.59 U	2.59	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.0129 U	0.0129	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0518 U	0.0518	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0518 U	0.0518	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0518 U	0.0518	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0518 U	0.0518	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <sun>	94.2		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <surr>	107		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Volatile Gas Chromatography/Mass Spectroscopy									
Dichlorodifluoromethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chloromethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Vinyl chloride	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromomethane	0.104 U	0.104	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chloroethane	0.104 U	0.104	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Trichlorofluoromethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1-Dichloroethene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Acetone	0.259 U	0.259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Carbon disulfide	0.104 U	0.104	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Methylene chloride	0.104 U	0.104	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
trans-1,2-Dichloroethene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Butanone (MEK)	0.259 U	0.259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2,2-Dichloropropane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,1-Trichloroethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
cis-1,2-Dichloroethene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
[illegible]ichloroethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
[illegible]mochloromethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chloroform	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV

SGS

SGS Ref.#	1045539016	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 10:05
Client Sample ID	Trip Blank	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroseopy									
Carbon tetrachloride	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Benzene	0.0135 U	0.0135	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1-Dichloropropene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dichloroethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Trichloroethene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dichloropropane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Dibromomethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromodichioromethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
loroethyl Vinyl Ether	0.104 U	0.104	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
,2-Trichloroethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
cis-1,3-Dichloropropene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Methyl-2-pentanone (MIBK)	0.259 U	0.259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Toluene	0.0518 U	0.0518	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
trans-1,3-Dichloropropene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Tetrachloroethene	0.0259 U	0.0259	ing/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,3-Dichloropropane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
2-Hexanone	0 259 U	0.259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Dibromochloromethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,1,2-Tetrachloroethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dibromoethane	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Chlorobenzene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Ethylbenzene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
P & M -Xylene	0.0518 U	0.0518	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
o-Xylene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Styrene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromoform	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Isopropylbenzene (Cumene)	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Bromobenzene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,3-Trichloropropane	0.0518 U	0.0518	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,1,2,2-Tetrachloroethane	0.0518 U	0.0518	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
n-Propylbenzene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
orotoluene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Chlorotoluene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,3,5-Trimethylbenzene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV

SGS

SGS Ref.#	1045539016	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 10:05
Client Sample ID	Trip Blank	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
tert-Butylbenzene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,4-Trimethylbenzene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
sec-Butylbenzene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,3-Dichlorobenzene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Isopropyltoluene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,4-Dichlorobenzene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2-Dichlorobenzene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
n-Butylbenzene	0.0259 U	0.0259	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Dibromo-3-chloropropane	0.104 U	0.104	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
4-Trichlorobenzene	0.0518 U	0.0518	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Hexachlorobutadiene	0.0518 U	0.0518	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Naphthalene	0.0518 U	0.0518	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
1,2,3-Trichlorobenzene	0.0518 U	0.0518	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Methyl-t-butyl ether	0.0414 U	0.0414	mg/Kg	SW8260B	A		08/28/04	09/10/04	RMV
Surrogates									
Dibromofluoromethane <sun>	102		%	SW8260B	A	83-119	08/28/04	09/10/04	RMV
1,2-Dichloroethane-D4 <sun>	105		%	SW8260B	A	83-122	08/28/04	09/10/04	RMV
Toluene-d8 <sun>	102		%	SW8260B	A	87-115	08/28/04	09/10/04	RMV
4-Bromofluorobenzene <sun>	105		%	SW8260B	A	46-133	08/28/04	09/10/04	RMV
Solids									
Total Solids	100		%	SM20 2540G	A			08/31/04	CMM

SGS

SGS Ref.#	1045539008	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 18:10
Client Sample ID	SP-8	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede

Released By Shawn Poston

Sample Remarks:

DRO/RRO - The pattem is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	1.90 U	1.90	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.00952 U	0.00952	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0381 U	0.0381	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0381 U	0.0381	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0381 U	0.0381	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0381 U	0.0381	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <sun>	95.5		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <surr>	106		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	208	81.2	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	895	81.2	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <surr>	111		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <sun>	101		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Solids									
Total Solids	94.5		%	SM20 2540O	B			08/31/04	CMM

SGS

SGS Ref.#	1045539009	All Dates/Times are Alaska Standard Time	
Client Name	BGES Inc.	Printed Date/Time	09/14/2004 16:14
Project Name/#	4th & Gambell 04-038-01	Collected Date/Time	08/28/2004 18:17
Client Sample ID	SP-9	Received Date/Time	08/30/2004 8:14
Matrix	Soil/Solid	Technical Director	Stephen C. Ede
		Released By	Shawn Poston

Sample Remarks:

DRO/RRO - The pattem is consistent with a lube oil.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Fuels Department									
Gasoline Range Organics	1.61 U	1.61	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Benzene	0.00803 U	0.00803	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Toluene	0.0321 U	0.0321	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Ethylbenzene	0.0321 U	0.0321	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
P & M -Xylene	0.0321 U	0.0321	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
o-Xylene	0.0321 U	0.0321	mg/Kg	AK101 8021B	A		08/28/04	09/10/04	MML
Surrogates									
1,4-Difluorobenzene <surr>	95.5		%	AK101 8021B	A	72-105	08/28/04	09/10/04	MML
4-Bromofluorobenzene <surr>	118		%	AK101 8021B	A	50-150	08/28/04	09/10/04	MML
Semivolatile Organic Fuels Department									
Diesel Range Organics	408	78.2	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Residual Range Organics	1010	78.2	mg/Kg	AK102/103	B		08/31/04	09/01/04	JC
Surrogates									
n-Triacontane-d62 <sun>	100		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
5a Androstane <surr>	84.2		%	AK102/103	B	50-150	08/31/04	09/01/04	JC
Solids									
Total Solids	95.8		%	SM20 2540G	B			08/31/04	CMM

CHAIN OF CUSTODY 1045539

CT&E Environmental Services Inc.
Laboratory Division

• Alaska • Maryland • Michigan • New Jersey • West Virginia • New Orleans
www.cteesl.com

(1)
CLIENT: BGES
CONTACT: Keith Guyer PHONE NO: 907) 644-2900
PROJECT: 4th Ave Landfill 64-038-01 PWSID#:
REPORTS TO: BGES FAX NO: 907,644-2901
INVOICE TO: BGES QUOTE#
P.O. NUMBER:

CT&E Reference:

PAGE 1 OF 2

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used										REMARKS
							none		no								
							Analysis Required (3)	GRO/BTEX	DRO/RRO	VOCs SW8260							
(1) AB	SLT-1	8/28	1005	Soil	2	G	X	X									RUSH
(2)	SLC-2	8/28	1048	Soil	2	G	X	X									
(3)	MLC-3	8/28	1144	Soil	2	G	X	X									
(4)	TLE-4	8/28	1300	Soil	2	G	X	X									
(5)	T2B-5	8/28	1344	Soil	2	G	X	X									
(6)	ELC-6	8/28	1442	Soil	2	G	X	X									
(7)	CP-7	8/28	1748	Soil	2	G	X	X									
(8)	SP-8	8/28	1810	Soil	2	G	X	X									RUSH
(9)	SP-9	8/28	1817	Soil	2	G	X	X									RUSH
(10)	TP-1 SG	8/28/07	09:40	Soil	2	G	X	X	X								

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Keith Guyer	8/30	08:14	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By: Heather Hall

(4)

Shipping Carrier:	Temperaturs C:
Shipping Ticket No:	
Data Deliverables: Level I Level II Level III EDO Type:	Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Requested Turnaround Time and Special Instrucions: Standard TAT accept for SP-8 & SP-9	

200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
3180 Peoer Road Fairbanks, AK 99701 Tel: (907) 474-8656 Fax: (907) 474-9685

White - Retained by Lab (Project File) Yellow - Returned with Report Pink - Retained by Sampler

CHAIN OF CUSTODY RECORD

1045539

CT&E Environmental Services Inc.
Laboratory Division

- Alaska
- Maryland
- Michigan
- New Jersey
- West Virginia
- New Orleans

www.cteesl.com

(1)

CLIENT: BGES

CONTACT: Keith Goyer PHONE NO: (907) 644-2900

PROJECT: 4th & Gambell PWSID#:

REPORTS TO: BGES FAX NO: (907) 644-2901

INVOICE TO: BGES QUOTE#

P.O. NUMBER: 04-038-01

CT&E Reference:

PAGE 2 OF 2

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used	Analysis Required (3) GRO/BTEX + 4 hour BTEX	DRO/RRO AK102/103	VOCs SW8260	REMARKS
(11) AB	TP-2 S7	8/28/04	12:24	Soil	2	G		X	X	X	
(12)	TP-3 S7	8/28/04	14:17	Soil	2	G		X	X	X	
(13)	TP-4 S3	8/28/04	15:37	Soil	2	G		X	X		
(14)	TP-5 S2	8/28/04	1626	Soil	2	G		X	X		
(15)	TP-6 S2	8/28/04	1727	Soil	2	G		X	X		
(16) A	Trip Blank	~~8/28/04~~	~~all~~	8/30/04							

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
	8/30	0814	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:
			Heather A Dall

(4)

Shipping Carrier: Shipping Ticket No:	Temperature C:
Data Deliverables: Level I Level II Level III EDD Type:	Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Requested Turnaround Time and Special Instructions:	

200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
3180 Peger Road Fairbanks, AK 99701 Tel: (907) 474-8656 Fax: (907) 474-9685

White - Retained by Lab (Project File) Yellow - Returned with Report Pink - Retained by Sampler

SGS

SAMPLE RECEIPT FORM

SGS WO#: 1045539

Yes	No	NA		
			Are samples RUSH, priority, or w/n 72 hrs. of hold time?	Due Date: 8+9: 9/1, rest 9/8
			If yes have you done e-mail notification?	Received Date: 8/30/14
	X		Are samples within 24 hrs. of hold time or due date?	Received Time: 1258 14
			If yes, have you spoken with Supervisor?	Is date/time conversion necessary? NO
		X	Archiving bottles – if req., are they properly marked?	# of hours to AK Local Time:
	X		Are there any problems? PM Notified?	Thermometer ID: 6
X			Were samples preserved correctly and pH verified?	

Cooler ID	Temp Blank	Cooler Temp
	5.9 °C	1.9 °C
	°C	°C
	°C	°C
	°C	°C
	°C	°C
	°C	°C

RUSH

*Temperature readings include thermometer correction factors

			If this is for PWS, provide PWSID.
	X		Will courier charges apply?
			Method of payment?
			Data package required? (Level: 1 / 2 / 3 / 4)
			Notes:
	X		Is this a DoD project? (USACE, Navy, AFCEE)

Delivery method (circle all that apply): (Client)
Alert Courier / UPS / FedEx / USPS /
AA Goldstreak / NAC / ERA / PenAir / Carlile
Lynden / SGS / Other:
Airbill #

Additional Sample Remarks: (√ if applicable)
_____ Extra Sample Volume?
_____ Limited Sample Volume?
_____ Field preserved for volatiles?
_____ Field-filtered for dissolved? _____
_____ Lab-filtered for dissolved? _____
_____ Ref Lab required? _____
_____ Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE)

Yes	No		
		Is received temperature 4 ± 2°C?	Exceptions: / Samples/Analyses Affected:
		Rad Screen performed?	Result:
		Was there an airbill?	(Note # above in the right hand column)
		Was cooler sealed with custody seals?	# / where:
		Were seal(s) intact upon arrival?	
		Was there a COC with cooler?	
		Was the COC filled out properly?	
		Did the COC indicate COE / AFCEE / Navy project?	
		Did the COC and samples correspond?	
		Were all sample packed to prevent breakage?	Packing material:
		Were all samples unbroken and clearly labeled?	
		Were all samples sealed in separate plastic bags?	
		Were all VOCs free of headspace and/or MeOH preserved?	
		Were correct container / sample sizes submitted?	
		Is sample condition good?	
		Was copy of CoC, SRF, and custody seals given to PM to fax?	

This section must be filled if problems are found.

Yes No
___ ___ Was client notified of problems?

Individual contacted:
Via: Phone / Fax / Email (circle one)
Date/Time:
Reason for contact:

Change Order Required?
SGS Contact:

Notes:

Completed by (sign): [signature] (print): [signature]

Login proof (check one): waived ____ required ____ performed by:

SGS

SAMPLE RECEIPT FORM (page 2)

SGS 1045529

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL	125 mL	60 mL	40 mL	8oz (250 mL)	4oz (125 mL)	Other	Container Type: AG	CC	HDPE	Nalgene	Cubie	Coli	Septa	Other	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	Other
1-15	A	2	GRO/BTEX										15		X						X						X			
4	B	2	DRO/RRO										15		X								X							
16	A	2	GRO/BTEX/VOC		X								1		X						X						X			
10.12	A	2	VOC			All above																								
Bottle Totals													31																	

Completed by: [signature] Date: 8/30/14

Form # F004-14 - 05/17/04